CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, December 16, 1909.

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RAILWAYS.

(denotes that this work is advertised in Engineering News.)*

BALTIMORE & OHIO.—Surveys are being made for a third track from Pittsburg to New Castle, Pa., it is stated. A. M. Kinsman is Ch. Engr., Baltimore; E. S. Stevens is Asst. Engr., Pittsburg.

CAMAS PRAIRIE R. R.—This company has filed articles of incorporation in Washington. E. J. Cannon, of Spokane, is state agent. Capital, $20,000. Incorporators are J. P. O'Brien, F. H. Fogarty, W. W. Colton, and J. B. Horr. Company will build a railway from the O. R. & N. at Texas City to Grangeville, Idaho. Headquarters will be at Portland, Ore.

CANADIAN NORTHERN.—The Provincial Government of British Columbia has entered into a contract with the Canadian Northern Railway Co., according to Abraham E. Smith, U. S. Consul, at Victoria, B. C., for the extension of its lines as follows: From Yellow Head Pass, at the northeast boundary of British Columbia, the line will go to Kamloops by way of the North Thompson River, from Kamloops to New Westminster and Vancouver, and from a point near Vancouver to English Bluff, to make ferry connection with Victoria, both for passengers and freight; the contract also covers a railway 100 miles on Vancouver Island from Victoria to Barkley Sound. The total mileage will be about 600 miles. To assist the company in the construction of this road, which will cost at least about $50,000 per mile, the Government is to guarantee interest at 4 per cent. upon $35,000 per mile, and also bonds of the company for entire amount. For security the Government will hold first mortgage on the line of railway in British Columbia and covenant from the Canadian Northern Railway Co., indemnifying it against any loss that might possibly occur. It is stipulated that no Asiatic labor is to be employed. Work is to start within six months after this contract is approved by the provincial legislature, which meets next month.

COLORADO & CONCHO.—Incorporated with $500,000 capital, in Texas, to build from Colorado, Tex., southeast via Robert Lee, in Coke County, to Tennyson, on the Kansas City, Mexico & Orient Ry., about 60 miles. The incorporators include C. W. McCutcheon, A. J. Russell, J. S. Burroughs, W. J. Adams, J. H. Warren and W. H. Bell.

DENVER, KINGFISHER & GULF.—Company has amended its charter and proposes to first build from Oklahoma City, Okla., northwest through Oklahoma and Texas, to coal fields near Raton, N. Mex., also from a point in Beaver County, Oklahoma, to Denver, Colo. Capital, $15,000,000. J. M. McDonald is acting president and D. K. Cunningham, acting secretary. Noted on April 29, 1909, under title of Kingfisher, Colorado & Gulf R. R.

FLORIDA.—Bids are asked until 11 a. m., Jan. 15, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for a marine railway at the U. S. Naval Station, Key West, Fla. Specifications are on file at office of Engineering News, New York.

HAWKINSVILLE & WESTERN.—This company has been incorporated by T. B. Ragan, J. F. Coney, W. N. Parsons, E. J. Henry, Morgan Thompson, N. A. Jelks, J. J. Whitfield and others of Hawkinsville, Ga., to build a line from 15 to 50 miles long from Hawkinsville to Perry; or Fort Valley, to Vienna or Unadilla or to Montezuma, Ga. Capital, $100,000. Headquarters, Hawkinsville Ga.

IRVINGTON RY.—Chartered in Georgia, with $15,000 capital to build a line 3 3-4 miles long from McIntyre, on the Central of Georgia Railway, to Irvington. The incorporators include J. L. Byington, J. W. Lindsey, G. H. Carswell, I. B. Stinson, I. E. Burkett and others, of Irvington. There will be two wooden bridges required.

KANSAS CITY, MEXICO & ORIENT.—This company will build a branch line from San Angelo, Tex., south to a connection with the Mexican International R. R. at Allende, State of Coahuila, Mexico, before it builds the extension of the main line southwest from San Angelo to a connection with its Mexican division in the State of Chihuahua. An international railroad bridge will be built across the Rio Grande at Del Rio. While this branch is being built, construction, it is stated, will also continue in progress on the main line of the Kansas City, Mexico & Orient Ry., in both Texas and Mexico. A gap of about 360 miles remains to be filled to form a through line to Chihuahua, Mex. In view of the traffic agreement which has been entered into between the Kansas City, Mexico & Orient Ry. and the Colorado & Southern Lines, the latter will not build its proposed extension from Ballinger, Tex., to Sonora, Tex., which is called for in the amendment to the charter of its Abilene & Southern line, it is reported. The territory in Mexico between Del Rio and Allende, which the proposed branch line of the Kansas City, Mexico & Orient Ry. will traverse is being developed rapidly. C. H. Webster is Ch. Engr., Sweetwater, Tex.

LONG ISLAND R. R.—The JOHN F. DOLAN CONTRACTING CO., 173 Broadway, New York, we are officially advised, has just been awarded the contract for grading six miles of second track between Flushing and Great Neck, on the North Shore Division of the Long Island R. R. J. R. Savage, Ch. Engr. The work will be commenced immediately and is to be completed in the summer of 1910.

NEW YORK CONNECTING R. R.—The Pennsylvania and the New York, New Haven & Hartford R. R. Companies, according to press reports, have come to a final agreement as to their respective share in the building of the New York Connecting R. R. from the Morris Park yards of the N. Y., N. H. & H. in the Bronx Boro. and by means of a viaduct over Ward's and Randall's Islands and bridges over the Harlem and East Rivers, and thence through Queens and Brooklyn Boros. to the Bay Ridge terminal, which it is estimated will cost from $16,000,000 to $20,000,000. The contract for the steel cantilever bridges and the viaduct, 140 ft. above tidewater, is to be given out early next year. The plans and specifications have all been prepared and approved by the Municipal Art Commission for several months. A connection will be made at Woodside with the Sunnyside yard tracks of the P. R. R., affording a direct connection for passenger trains from Boston and other New England points with the P. R. R. trunk lines to Washington and the West and Southwest. Three trunk lines, the P. R. R., Long Island R. R. and N. Y., N. H. & H. will find an entrance to the union passenger station in the Boro. of Manhattan. The N. Y., N. H. & H. R. R. will also have a direct route for its freight traffic via Bay Ridge terminal, with the trunk lines of the P. R. R. system to all parts of the West and Southwest. The right-of-way for the New York Connecting R. R. has been secured, and a large section of the line where the tracks have been depressed or elevated in South Brooklyn is already available for traffic. It will take about three years to complete the line, including the construction of the large bridge and the construction of a big embankment through the northern half of Queens County and a tunnel under the Lutheran Cemetery. Noted on Aug. 12.

PENNSYLVANIA R. R.—Extensive new railroad yards will be located at West Brownsville Junction, Pa., and a double track railroad bridge will be built across the Monongahela River at this point, it is announced. The plans also contemplate the construction of two additional passing sidings on the Ellsworth branch of the road, one at Hazelkirk and the other at Bentleyville. These sidings are for the purpose of facilitating the handling of coke.

PRESCOTT, READER & FORDYCE.—An extension is planned to be constructed from Lyda, Ark., to Prescott and eventually continued from Prescott to Fordyce, 75 miles. W. B. Ferguson is Pres. and Gen. Mgr., Little Rock, Ark.

RIVER TERMINAL CO.—The River Terminal Co., of Cleveland, Ohio, has been incorporated with capital stock of $50,000 and is chartered to build a railway from the Pennsylvania ore docks at Whisky Island through the flats southward to the city line at the point where the Erie Railroad leaves the city. Wm. W. White, of the law firm of Goulder, Holding & Masten, Rockefeller Bldg., Cleveland, is an incorporator.

ST. LOUIS & HOUSTON MINERAL BELT.—Company will extend its line from Houston, Mo., south to Sargent, 23 miles. Surveys are being made. E. K. Lhles is Secy., Houston, Mo.

SOUTHERN PACIFIC.—The double-tracking of the railway between Stockton and Tracy, Cal., has been authorized and construction will start at once. Estimated cost, $850,000. The yards at both points will be enlarged and a freight depot built at Stockton.

SOUTHERN PACIFIC R. R. (of Mexico).—C. R. Breck has been appointed chief locating engineer of the Southern Pacific Railroad of Mexico to locate that part of the proposed line through the Sierra Madres, in the State of Jalisco, Mexico. He succeeded R. E. Hardaway. Surveying parties have been in the field locating the route for the road through the mountains for more than a year. The GRANT BROS. CONSTRUCTION CO., of Los Angeles, Cal., which has the contract for building the Pacific Coast division of the Southern Pacific Railroad of Mexico as well as the branch lines in the State of Sonora, expects to complete the Yaqui River line to Toledo by Jan. 1. The contract will then be let for building a branch line from Toledo to the Barranca coal fields. L. H. Long is Ch. Engr., Tucson, Ariz.

SOUTHWESTERN RY.—This company, which operates a railway between Henrietta and Scotland, Tex., 20 miles, will extend its line from Scotland to Archer City, ten miles. A. C. Parks is Gen. Supt., Henrietta, Tex.

TEMISKAMING & NORTHERN ONTARIO (Ontario Government Ry.).—It is stated that surveys are being made for a line from Charlton, Ont., to Goganda, 50 miles. Noted on Jan. 28, '09. Frederick Dane, Comr., Toronto, Ont.; A. J. McGee, Secy.-Treas., Toronto.

TONOPAH & TIDEWATER.—Announcement is made that construction will be started soon on the proposed Ely-Goldfield extension in Nevada. It will not start directly from Goldfield, but from Cuprite, 14 miles south of Goldfield, on the Tonopah & Tidewater R. R. This is because the grades directly east of Golufield are too heavy. From Cuprite to Ely the distance is 235 miles. Estimated cost, $6,000,000. C. M. Rasor is Ch. Engr., Los Angeles, Cal.; John Ryan, Gen. Mgr., Ludlow, Cal. Noted on July 22.

WESTERN MARYLAND.—An extension will be built from Cumberland, Md., to New Haven, Pa. The money required for the purpose, $12,000,000, has already been provided for, it is added, and work on the extension, about 83 miles in length, will be begun shortly. At New Haven connection will be made with the Pittsburg & Lake Erie Railroad, which will carry the new line to Clarendon, Pa., when connection will be made with the Wabash-Pittsburg Terminal into Pittsburg. H. R. Pratt is Ch. Engr., Baltimore, Md.

WESTERN PACIFIC.—The Western Pacific Ry. was opened for through freight traffic on Dec. 11. Noted on Nov. 11.

CONSTRUCTION OF RAILWAY.—An American Consul in Latin America reports that a contract has been entered into by the local government with a business man representing a syndicate of English capitalists for the construction of 450 miles of railway, at a total cost of $14,870,807 gold. Further detailed information, togother with the name of the inidividual with whom interested parties would do well to correspond, can be obtained upon application to the Bureau of Manufactures, Washington, D. C. In applying for addresses refer to File No. 4253.

ELECTRIC RAILWAYS.

TITUSVILLE, PA.—The Titusville Central R. R. Co. has been granted a charter in Pennsylvania to build and operate a 20-mile line between Titusville and Corry. The company has a capital of $210,000. The incorporators are W. J. Smith, Titusville, Pres.; P. T. Carolan, New York; C. H. Ley, F. S. Fleming, C. W. Hawbaker, E. J. Robertson, A. N. Egbert, all of Titusville, Directors. Gasoline motor cars will be used. Mr. Smith is Pres. of the Titusville Elec. Traction Co.

KITTANNING, PA.—The Pittsburg & Allegheny Valley St. Ry. Co. it is announced, has financed its proposed extension to be built between Kittanning and Oakmount. Preliminary survey will be made by Geo. B. Campbell, Jr., of New Kensington, Pa., between Ford City and Leechburg. H. A. Waddell is Supt., Leechburg, Pa.

PHILADELPHIA, PA.—We are officially advised that the Philadelphia & Suburban Elevated R. R. Co., on account of opposition to the construction of single-track elevated lines on 12th and 13th Sts., Philadelphia, has filed a new application for charter, and a hearing will be granted before the Governor of the State of Pennsylvania about Jan. 1. The company's new plan dispenses with the service to the southern portion of the city to Johnson St., and for service to the north supplement a subway, running from the City Hall to Lehigh Ave., a distance of 2½ miles, at which point connections will be made with company's original lines as projected to Frankford, Wayne Junction and Strawberry Mansion. A sketch plan showing the original proposed line, and the changes proposed, is on file at office of Engineering News, New York. S. S. Neff, 416 Franklin Bank Bldg., Philadelphia, is Pres.

FREDERICK, MD.—The consolidation of the Frederick & Middletown Ry. Co., the Washington, Frederick & Gettysburg Ry. Co. and the Jefferson & Braddock Heights Ry. Co. was effected at a joint meeting of stockholders at Frederick, Md., on Dec. 7, when the three corporations were merged into a new company known as the Frederick Railroad Co. Capital stock, $1,500,000. The Frederick & Middletown Co. and its extensions—the Jefferson & Braddock Heights and the Myersville & Catoctin companies—have operated under the name of the Frederick Interurban Railway, but no company of that name has ever been incorporated. The controlling interest in the Myersville & Catoctin Co., whose line runs between Middletown and Myersville, is held by interests in Hagerstown, Md., but its line is operated by the Frederick & Middletown under a lease which still has five years to run, and no change will be made by the consolidation. The merger is expected to make a strong company, and those in control expect to extend its lines when conditions are ready for extensions. The first extension will probably be to Brunswick. A line from Jefferson to Brunswick has been surveyed, and the construction of this section, seven miles long, may be commenced next season. The extension of the Washington, Frederick & Gettysburg Ry. is also in view. This road is now in operation between Frederick and Thurmont, a distance of 17 miles, as a steam railway. Its extension through Emmitsburg to Gettysburg, Pa., is contemplated. At Gettysburg important connections with lines in southern Pennsylvania are in sight which may eventually connect Frederick with York, Lancaster and Harrisburg. The new company organized by electing these officers: Emory L. Coblentz, Pres.; Dr. Franklin B. Smith, Vice-Pres.; Thos. H. Haller, Treas.; Charles C. Waters, Secy.

MERIDIAN, MISS.—M. R. Grant, of Meridian, has applied to the City Council for a street railway franchise, including a power plant.

GLASGOW, KY.—We are officially advised that the Louisville, Lincoln Farm & Mammoth Cave Traction Co. is the title of the company which proposes to build from Glasgow, via Buffalo, to Hodgenville, Ky., and from Glasgow to Mammoth Cave, a distance of 60 miles. Surveys are partly made and capital is partly secured for construction. Right-of-way is secured from Glasgow to Buffalo upon the Louisville and Nashville pike. Company desires to secure engineers to complete the necessary work. Chas. Van den Burgh is the promoter, Glasgow, Ky.

FOSTORIA, OHIO.—John W. S. Reigle, Findlay, Ohio, Ch. Engr. of the Fostoria & Fremont Ry. Co., has begun surveys for this line. As officially noted on Nov. 25, company will let construction contracts in February or March, 1910.

CINCINNATI, OHIO.—The Cincinnati, Harrison & Indianapolis Traction Co. has been incorporated and is now securing right-of-way between Cincinnati and Harrison. Survey is completed. W. L. Finch, Union Trust Bldg., Cincinnati, is interested. Noted on Nov. 18.

OWOSSO, MICH.—The electric railway which will be constructed between Lansing and Saginaw will be built through Owosso, funds for the purpose having been raised at Owosso. T. W. Atwood, Ira Sayres, Charles Gale and C. O. Dewey, of Owosso, are interested.

MILWAUKEE, MIS.—The Railroad Commission of Wisconsin has issued a certificate of public convenience and necessity to the Milwaukee-Western Electric Railway Co. for a line from Milwaukee to Beaver Dam, with a branch division from Sussex to Waukesha. The main line by the surveyed route will be 56 miles in length and the Waukesha division nine miles, through Pewaukee to Waukesha. Grading work will begin first between Juneau and Hustisford in order that the rails and ties may be laid early next spring to carry the power-house equipment to Hustisford from the railroad connections at Juneau. The directors will take steps for an extension of the new line from Beaver Dam to Fox Lake, in accordance with the request of the citizens of the latter place. Two weeks advertising of the new articles will be necessary and then, about Jan. 1, the company will apply to the Railroad Commission for a certificate for the new division, which will add a little over eight miles to the mileage to be built. The main line of the road from Milwaukee to Beaver Dam will be only a mile shorter than the Milwaukee Northern's line from Milwaukee to Sheboygan. A stockholders' meeting will be held Jan. 13, at which steps will be taken to increase the capitalization of the company for the building of the line and for the issuance of $2,000,000 of bonds. The contract for the construction work has already been let to the W. D. CHAPMAN CO., Marquette Bldg., Chicago. The powerhouse of the company is to be located at Hustisford. Noted on Sept. 2. Offices of the railway company are at 914 Majestic Bldg., Milwaukee.

DAVENPORT, IOWA.—The Mississippi Shore Line Ry. Co. will be incorporated to build an electric railway from Davenport to Muscatine. Walter D. Olney, Lock Box 430, Davenport, is interested.

IOWA CITY, IOWA.—We are officially advised that surveys have been made by the Iowa City, Ottumwa Southwestern Elec. R. R. Co. between Iowa City and Ottumwa, 70 miles; right-of-way has been obtained for distance of 50 miles. FRANK TANNER, Iowa City, will construct the line. Noted on Nov. 25.

MEXICO, MO.—The Mexico, Santa Fe & Perry Traction Co., Mexico, Mo., has awarded general contract for construction of its interurban road to BURNS & CO., 705 Isabella Bldg., Chicago, who will let contracts for material and equipment soon. The line is to extend south from Mexico to Columbia and Fulton, and north to Santa Fe, Perry and Hannibal, a total of 103 miles. Burns & Co. will purchase all material and let all sub-contracts. Previously noted.

MOBEETIE, TEX.—The J. B. TAYLOR CO., 30 Church St., New York, has contract for 125 miles of engineering for the Central Construction Co., of Mobeetie.

FORT WORTH, TEX.—We are officially advised that the Northern Texas Traction Co. has arranged for the double-tracking of 7,200 ft. of the Polytechnic College line in Fort Worth. The work will be carried out by the STONE & WEBSTER ENGINEERING CORPORATION, of Boston, Mass.

OKLAHOMA CITY, OKLA.—We are officially informed that J. B. TAYLOR & CO., Hudson Terminal Bldg., 30 Church St., New York, have secured the contract for all the engineering work for building the electric railways between Oklahoma City and Shawnee, Okla.

EL RENO, OKLA.—Surveyors of the El Reno & Anadarko Interurban Ry. Co. have completed the survey of the proposed route from El Reno to the Washita River north of Anadarko. The survey into Anadarko will be suspended temporarily, pending selection of the route by which the road is to enter the city.

WALLA WALLA, WASH.—The City Council has granted the Northwestern Gas & Electric Co. a 25-year extension of its franchise covering street railway, gas and electric power and lighting.

REDWOOD CITY, CAL.—A. H. Lohman, of San Francisco, has been making preliminary surveys for an electric line across the mountains to La Honda and the Big basin. The engineers began their work on Nov. 29. Mr. Lohman states that the eastern terminal of the road will be on deep water in the Redwood creek and it will run in a straight line to Woodside.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

PORTLAND, ME.—Bids for electric work and ventilating and heating the new city hall, opened on Dec. 1, have been rejected. New bids for the work will be asked. Carrere & Hastings, 225 Fifth Ave., New York, and John Howard Stevens, 187 Middle St., Portland, are Archs.

NORTHFIELD, VT.—Preparations are being made for the extension of the municipal electric light system to Northfield Junction to furnish electricity for lamps. Street lamps will probably be installed.

ESSEX, MASS.—The lighting of the streets here by electricity is under consideration. A proposition has been submitted to light the entire town by the installation of 100 lamps at $1,000 per year. The town now pays $400 per year for the care of 30 lamps lighted 20 nights in the month.

SPRINGFIELD, MASS.—Bids will be received by the Municipal Building Commission until Dec. 22, as follows: Contract No. 3, heating and ventilating; Contract No. 4, electric work; Contract No. 5, plumbing for the auditorium, tower and passage and municipal office building of the new municipal buildings to be erected by the city, in Court St., facing Court Sq. Copies of drawings and specifications may be seen at the Municipal Bldg., at the office of Pell & Corbett, Archs., 122-124 East 25th St., New York, and at the office of Holliss French & Allen Hubbard, Albany Bldg., Boston, Mass., copies of which may be obtained on application. George Dwight Pratt is Chn. Municipal Bldg. Comn.

PROVIDENCE, R. I.—The Narragansett Electric Lighting Co., William C. Woodward, Electrical Engr., has purchased a site on Bough St. in the Olneyville district, on which to erect a substation for the distribution of electricity.

NORTH SMITHFIELD, R. I.—The WOONSOCKET ELECTRIC MACHINE & POWER Co. has been awarded contract by the Town Council of North Smithfield for lighting the streets of the town for one year. Contract calls for 40 incandescent lamps in different parts of the town. F. S. Pond is Supt.

PRINCETON, N. J.—Plans are being considered by the Borough Council for the improvement of lighting system. Municipal ownership is being considered. Prof. Howard McClenahan of Princeton University, is Consulting Engr.

YORK, PA.—One bid was received by the City Council for lighting the streets of the city, submitted by the Edison Electric Light Co., York, at $80 per year for each arc lamp, contract to be signed for not less than five years. The bid is considered excessive and the Council has instructed the Light Committee to secure estimates of the cost of the construction of a municipal electric light plant and to compare the cost of street lighting in York with that of other cities.

NORRISTOWN, PA.—Bids are asked until 3 p. m., Dec. 29, by the Board of Trustees of the State Hospital for the Insane of the Southeast District of Pennsylvania for (a) a fire protection equipment, (b) an air compressor, (c) an engine, (d) a dynamo, (e) a motor-generator and (f) a switchboard.

WOODVILLE, PA.—We are officially advised that contract has been awarded to the DUNSHEE ELECTRIC CO., of McKeesport, Pa., by R. J. Cunningham, County Controller, Pittsburg, for gas and electric fixtures at Allegheny County Home, here.

ALEXANDRIA, VA.—The Rosslyn Electric & Gas Co., D. S. Mackall, Pres., has awarded contract to UNITED GAS IMPROVEMENT CO., Broad and Arch Sts., Philadelphia, for laying mains and erecting gas making plant.

RICHMOND, VA.—Contract was awarded by the Council Committee on Electricity on Nov. 26, for the steam and water piping, condensing system and drainage plant of new municipal electric plant, to the SOUTHERN PLUMBING & ELECTRIC CO., at $9,667.

KIMBALL, VA.—Surveys have been completed by J. S. Shaw, of Algoma, W. Va., for the electric light plant and water-works system here. Work will commence at once. L. KAUFMAN, of Northport, has contract for the construction work. Estimated cost, $100,000.

CLARKESVILLE, GA.—The Clarkburg Ry. Co. will enlarge its power plant upon completion of the extension to Nacoochee Valley. The installation of a turbine unit is being considered.

FORT PAYNE, ALA.—The City Council has granted franchise to George H. Edwards, of Birmingham, Ala., to construct and operate an electric light and power plant. A company will be formed by the citizens of Fort Payne and Monroe, La. The plant will be operated in connection with the power plant now being installed by the Fort Payne Fuel & Iron Co. The franchise is for five years and the company is to furnish the town five arc lamps free of charge. Work will probably commence at once on construction. E. C. Drew is Pres. Fort Payne Fuel & Iron Co.

HENNING, TENN.—Preparations are being made by J. R. Gregory, J. B. Alston and J. W. Wilson for the construction of a 30-KW. electric light plant and a 10-ton ice plant. Plans have not been completed.

LOUISVILLE, KY.—The Kentucky Electric Co., Lewis S. Streng, Ch. Engr., will make improvements to its plant here to cost about $40,000. The company proposes to secure its water supply from the Ohio River and will construct a pipe line 150 ft. in length into the river. Contract has been awarded to the FALKENAU ELECTRICAL CONSTRUCTION CO., 108 La Salle St., Chicago, Ill.

AKRON, OHIO.—The Board of Public Service has awarded contract for furnishing gas lights for city for next five years to SCOTT D. KENFIELD, at $17 per lamp per year.

EVANSVILLE, IND.—C. A. Gillham, Secy. and Gen. Mgr. Central Station Engineering Co., is representing an applicant for franchise to establish a central heat, light and power plant, which proposes to erect a system here. Cost, about $1,000,000.

INDIANAPOLIS, IND.—Plans are being made by the Star Motor Co. for the construction of a factory in Indianapolis, including the installation of a power plant, to be equipped with electric motor-driven machinery.

DETROIT, MICH.—Plans are being considered by the Detroit Copper & Brass Rolling Mills for increasing the equipment of its power plant, including the installation of alternating-current generators with a rating of about 1,500 HP. with auxiliary apparatus, the plant to be driven by steam turbines.

ALTON, ILL.—Preparations are being made by the Alton Tool Handle Co. to remodel its plant and equip it for electric motor drive.

MASON CITY, IOWA.—The Mason City & Clear Lake Ry. Co. will soon place contracts for a 500 or 600-KW. 2300-volt, 60-cycle 3-phase generator, a simple Corliss engine and a 500-KW., 600-volt rotary converter.

MINNEAPOLIS, MINN.—Bids for wiring the Seward and Seven Oaks School buildings, opened on Nov. 30, have been rejected and plans for the work will be revised. W. G. Nye is Secy. Bd. of Education.

NEBRASKA CITY, NEB.—The citizens have voted to give the NEBRASKA CITY WATER & LIGHT CO. a 20-year franchise and a contract to supply the city with water and lighting for a term of ten years. The company has agreed to extend its water and lighting systems to all parts of the city not having lighting service, and to expend from $40,000 to $50,000 in improvements. Fred Brooks is Ch. Elecn.

RAMONA, S. DAK.—Citizens Light & Power Co. has awarded contract to H. P. MORTENSEN, of Toronto, S. Dak., for the installation of electric light plant.

LEADVILLE, COLO.—The Leadville Light & Power Co. is extending its tarnsmission liens to the Sugar Loaf mining district to supply electricity for lamps in that district. J. L. Smith is Ch. Elecn.

MABTON, WASH.—The Yakima Valley Power Co., George C. Arrowsmith, Supt., North Yakima, is reported to have been granted a 15-year franchise by the City Council to install an electric light plant here.

NORTH YAKIMA, WASH.—The City Council has decided to purchase the electric light plant and water-works system of the Northwest Light & Water Co. here, at $310,000.

TACOMA, WASH.—The Commissioner of Public Works has asked the City Council to ask at once for bids for the construction of the power canal and headworks of the proposed municipal electric plant on the Nisqually River. Estimated cost, about $2,000,000.

MERIDIAN, CAL.—The Trustees of Reclamation District No. 70 have awarded contarct for the installation of a 150-HP. motor with complete electrical equipment and a 30-in. pump for the seepage water pump in the district to FAIRBANKS, MORSE & Co., 158 First St., San Francisco, Cal.

HOLLYWOOD, CAL.—Bids are being asked for the installation and maintenance of a public lighting system here. George H. Field is City Clk.

MONTEREY, CAL.—The Supevrisors have granted franchise for a transmission line between Salinas and Monterey to the Monterey Gas & Electric Co.

WHIPPLE BARRACKS, ARIZ.—Contract for the construction of an electric lighting system here, bids opened Nov. 10, has been awarded to the CENTRAL ELECTRIC CO., INC., 185 Stevenson St., San Francisco, Cal., at $12,795. Lieut. William A. Alfonte is Constructing Q. M. List of bids noted on Nov. 18.

LONDON, ONT.—The CANADIAN WESTINGHOUSE CO., Toronto, Ont., has been awarded contract for the electrical apparatus for the municipal electric lighting system, at $50,908. The total bid of the company was $64,058. This included one motor-generator set and street arc lighting system, on which awards have been deferred.

TERRA, ALTA.—J. A. Martin will establish an electric plant and is having plans prepared for a power house.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

FALL RIVER, MASS.—This city is considering the construction of a viaduct over Fall River and Pocasset St., connecting Durfee and Main Sts., about 400 to 500 ft. long. P. D. Borden is City Engr.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Dec. 30, by the Park Board, Fifth Ave. and 64th St., Manhattan, for repairs and alterations to Breeze Hill Bridge, Prospect Park, Boro. Brooklyn.

*COHOES, N. Y.—Bids will be received by the Board of Addehmen until 8 p. m., Jan. 4, for furnishing materials and erecting a 30-ft. span, rolled I-beam bridge with concrete floor, 14 ft. roadway and 3-ft. sidewalk, with the necessary substructure. William J. Elliott is City Clk.; George T. Bolton is City Engr.

ROME, N. Y.—Bids were received as follows by the Board of Public Works on Dec. 6 for the construction of a riveted steel highway bridge over the Mohawk River at the proposed extension of East Bloomfield St.: United Construction Co., Albany, $7,097, or replace the old bridge for 12½% above cost of handling it; Lay & Walpole, Oswego, new, $6,020, old bridge, $4,480; Toledo-Massillon Bridge Co., Toledo, Ohio, $7,424, allow $200 for material in old bridge; Canton Bridge Co., Albany, two bids, $6,032 and $5,628, replace old bridge, $4,062; Duaseath Construction Co., 45 Broadway, New York, $8,100, replace old bridge, $3,350. J. L. Plunkett is City Engr.

SOMERS POINT, N. J.—The cost of a steel bridge 30 ft. wide across Great Egg Harbor Bay from Somers Point to Beasley's Point has been estimated at $580,000. Noted on Nov. 18. E. D. Rightmire is County Engr., Atlantic City.

*MONONGAHELA CITY, PA.—The DRAVO CONTRACTING CO., Lewis Block, Pittsburg, Pa., was awarded contract on Dec. 10 by the Commissioners of Allegheny and Washington Counties for the removal of the superstructure and substructure of the old bridge across the Monongahela River here, at $5,100, and $300 for the material of the bridge. R. J. Cunningham is County Controller.

RICHMOND, VA.—The Virginia Ry. & Power Co., Calvin Whiteley, Jr., Ch. Engr. of Way, proposes to construct a free viaduct over Broad St., from Church Hill to the main section of the city.

WHEELING, W. VA.—The Board of Control on Dec. 6 opened bids for the superstructure of the new Market St. bridge, and awarded the contract for furnishing material and constructing the bridge separately. Contract for material was awarded to the AMERICAN BRIDGE CO., 50 Church St., New York, and for erecting the structure to the EDER CONSTRUCTION CO., Ferguson Bldg., Pittsburg. The bid of the American Bridge Co. on the material only f. o. b. its Cleveland factory was $12,875. The bid of the Eder Construction Co. on the erection of the structure was $4,950. Total cost superstructure, $17,825.

WILMINGTON, N. C.—The City and the Atlantic Coast Line R. R., E. B. Pleasants, Ch. Engr., Wilmington, will construct a steel bridge across the tracks at Sixth St. Estimated cost, $15,000.

BIRMINGHAM, ALA.—Totten & Ohl, 214½ North 20th St., Birmingham, Engrs-in-Charge of Construction, have awarded contract to the VIRGINIA BRIDGE & IRON CO., Roanoke, Va., for the construction of a 45-ft. 7⅞-in. deck girder span for underpass of Trussville branch of Louisville & Nashville R. R. by Birmingham & Edgewood Electric Ry.

CHATTANOOGA, TENN.—The Boulevard Commission has awarded contract to the CHICKAMAUGA QUARRY & CONSTRUCTION CO., of Chattanooga,, for constructing three concrete cuvlerts, each 120 ft. long; two 7½-ft. in diameter and one 12 ft. Cost, $3,500.

GALLATIN, TENN.—The Bridge Commissioners of Sumner County have awarded to the NASHVILLE BRIDGE CO., Nashville, Tenn., contract for the construction of what is known as the Albright bridge on Dry Fork; also for a bridge across Pryor Fork. The bridges are to be completed by Jan. 1, 1910.

CINCINNATI, OHIO.—Bids will be received by the Board of County Commissioners until noon, Jan. 7, for repair of the east abutment of the bridge over the Little Miami River on the New Richmond Pike, Anderson Township. Stanley Struble is Pres.

*CINCINNATI, OHIO.—Contract for constructing the superstructure and substructure work of lift bridge at Mohawk Pl. was awarded on Dec. 7 by Board of Public Works to GRANIGER & CO., at $34,300.

MONROEVILLE, OHIO.—A new bridge of heavy steel is to be built to replace the old covered bridge here. The cost of the bridge will be between $15,000 and $20,000 and it will have a single roadway 20 ft. wide and a 5-ft. walk for pedestrians.

KAPPA, ILL.—Contract for constructing a steel bridge over Mackinac River was awarded on Dec. 2 by the Supervisors of McLean and Woodford Counties to BURNHAM & IVES, Griesham Bldg., Bloomington, at $8,000.

WICHITA, KAN.—Bids are asked until Dec. 27 by the county for the construction and repair of county bridges. Estimated cost, $9,000.

WAYNE, NEB.—Bids are asked until noon, Dec. 21, by Board of County Commissioners for constructing and repairing all county bridges during 1910. Charles W. Reynolds is County Clk.

NASHVILLE, ARK.—Howard and Sevier Counties will construct a steel bridge across the Saline River and in addition to this structure, Howard County will construct four steel bridges.

BERCLAIR, TEX.—The Goliad and Bee County Commissioners at Goliad and Beeville, Tex., respectively ask bids for the construction of the proposed steel bridge over the Blanco River here.

DALLAS, TEX.—Bids will be received by the Commissioners' Court, George L. Fearn, County Audr., until Jan. 15 for furnishing material and constructing a steel highway bridge and viaduct over Trinity River, about five miles south of here. J. F. Witt is County Engr.

HEBER, CAL.—IBds are asked by the Board of Supervisors of Imperial County until Jan. 3 for the construction of a bridge across New River west of Heber; also for a similar bridge across New River near Rockwood siding. Plans and specifications for the work are on file in the office of the County Surveyor, Court House, El Centro, Cal. D. S. Elder is Clk. Bd.

PASADENA, CAL.—J. S. Van Orman, City Engr., has been instructed to prepare plans for the erection of a bridge 30-ft. roadway with sidewalks on each side, to cross the railway tracks at the foot of Columbia St. The sum of $15,000 is available.

FLORENCE, ARIZ.—We are officially advised that the time for receiving bids by the Territorial Board of Control for the construction of a highway bridge over the Gila River near here, has been extended until Jan. 15. Bids were asked until Dec. 8. J. B. Girand is Territorial Engr., Phoenix.

QUEBEC, QUE.—Bids were received by L. K. Jones, Secy., Dept. of Railways and Canals, Ottawa, Ont., on Nov. 30 for building the substructure of the Quebec bridge. Contract has been awarded, it is reported, to M. P. DAVIS, Central Chambers, Ottawa, at about $2,500,000.

*WINNIPEG, MAN.—Bids are asked until 11 a. m., Jan. 18, by the Board of Control for removing the present superstructure and furnishing and erecting new superstructure and floor complete for Louise bridge across the Red River. M. Peterson is Secy.

VANCOUVER, B. C.—Bids were opened on Nov. 12 by the Bridge Committee of Council for the construction of a bridge over False Creek, between Bridge and Beatty Sts., from the plans of Waddell & Harrington, Kansas City, Mo. Contracts have been awarded as follows: Substructure—To PALMER BROS. & HENNING, of Vancouver, at following prices: 2,300 cu. yds. masonry in pneucaisson and cribs, $17; 4,800 cu. yds. concrete in shafts, $11.50; 3,335 cu. yds. masonry in pile piers, $13.50; 16,000 lin. ft. piles below cribs, 31 cts.; 5,600 cu. yds. concrete in abutments and wing walls, $9.50; 16,000 lbs. anchor bolts, 6½ cts.; 11,000 cu. yds. earth fill, 90 cts.; 900 cu. yds. macadam and crushed stone in sidewalks, $2.50; 1,200 lin. ft. concrete curb, 30 cts.; temporary bridge, 500 ft. long, $6,000. Total, $212,620. Superstructure—To the CANADIAN BRIDGE CO., of Walkerville, Ont., at following prices: 91,500 lbs. metal and machinery in swing span, 6.2 cts.; 6,400,000 lbs. metal in trestle span and trestle bents, 4.27 cts.; 850 M A. creosoted timber, $45; 415 M A untreated timber (fir), $30; five M A Australia hardwood, $80; 16,600 sq. yds. creosoted black pavement, $2; 10,000 lin. ft. draw protection piles, 25 cts.; electrical machinery, $2,000; electrical lighting, $8,000; machinery cabi non draw span, $600. Total, $439,210.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

SPRINGFIELD, MASS.—The contract for constructing the Hotel Kimball, which is to be erected at the corner of Chestnut and Bridge Sts., has been awarded by the Directors to FRED. T. LEY & CO., of this city. The contract includes all the superstructure, steel, stone and brick. The contract for the superstructure calls for it to be finished within the year, with a bonus for early completion. It is hoped to open the hotel next fall. The building will be about 116 x 186 ft. The concrete foundations are about three-quarters done. The stone for the lower part of the building will be ordered at once and the steel gotten here as soon as possible. The other contractors who submitted bids are Thompson, Starritt Co., 49 Wall St., New York; Norcross Bros., of Worcester; McNeil Bros., of Boston; J. W. Bishop Co., of Worcester, Mass.; Casper Ranger, of Holyoke, Mass.; H. Wales Lines Co., of Meriden, Conn.; A. H. Stevens Co., of Binghamton, N. Y.; D. W. Mellen and W. H. Falvey & Son, of Springfield.

ROCHESTER, N. Y.—We are officially advised that the New York Central & Hudson River R. R. Co. has completed preliminary plans for a passenger station to be erected at Joiner St. at an estimated cost of $1,500,000. George W. Kittridge is Ch. Engr., Grand Central Station, New York. Claude F. Bragdon, Cutler Bldg., Rochester, is Arch., associated with New York architects.

NEW YORK, N. Y.—Bids are asked by Thomas F. Foley, Sheriff of New York County, until 11 a. m., Dec. 23, for repairing the Ludlow St. jail, located at 70 to 74 Ludlow St., Boro. of Manhattan, City of New York.

Plans are being drawn by Louis Charles Maurer, 1495 Broadway, Arch., for a 12-story store and loft building to be erected on plot 66 x 98.9 ft., at 137-143 West 25th St. It will have steel skeleton construction, reinforced concrete arches, maple floors, three high-speed elevators, facade of white pressed brick and glazed terra cotta. The building will rise 150 ft. above the curb level. The estimated cost is $185,000. The Theodore Starrett Co. is the owner.

New plans have been filed by S. S. Sugar, Arch., for S. Schinasi for the proposed enlargement of the automatic vaudeville theatre known as the Unique, at 134 and 136 East 14th St., by a rear extension 62½ ft. wide and 60 ft. deep, to be fitted as a stage with dressing rooms. The construction is to be fireproof and is to cost $55,000.

Plans have been filed for a 16-story commercial building, with ground floor stores, to be built from designs by Neville & Bagge, Archs., 217 West 125th St., for Charles Bregan, Inc., as owner, at the northeast corner of Fourth Ave. and 20th St., opposite All Souls' Unitarian Church. It is to be 216 ft. high, with a facade of terra cotta trimmed brick finished with 3-story bays set between Doric pilasters at the three topmost stories and crowned with a large cornice. The building will have an avenue frontage of 90 ft. It is to cost $350,000.

NEW YORK, N. Y.—Bids are asked by the Park Board until 3 p. m., Dec. 30, for Contract No. 11, for work and material for the furniture and equipment of the New York Public Library, Astor, Lenox and Tilden Foundations, Fifth Ave., 40th and 42d Sts., Boro. of Manhattan. Henry Smith is Pres.

Bids are asked until 10 a. m., Dec. 22, by the Board of Health for furnishing and delivering plumbing materials, fixtures and fittings to be used in the construction and equipment of various buildings now erected

or proposed for erection upon the grounds of the Tuberculosis Sanatorium, at Otisville, Orange County, New York. Dr. Thomas Darlington is Pres.

C. R. Van Buskirk, Arch., 187 Montague St., Brooklyn, has plans about ready for a 3-story frame and asbestos block non-fireproof bath house, hotel and dance hall, to measure 100 x 325 ft., for P. J. Geneas, to be erected on Ocean Ave., Coney Island, at a cost of $60,000. It will contain 40 rooms, 4,000 bath houses, and a concrete plunge tank. No contract has been awarded.

NEW YORK, N. Y.—We are officially advised that Buchman & Fox, Archs., 11 East 59th St., will take estimates in about two weeks for remodeling and enlarging the brick store building, 228 x 181 ft., on the south side of Westchester Ave., east of Third Ave., Bronx, owned by J. Clarence Davies and associates, 14 East 31st St. The cost is estimated at $50,000. The architect will supervise and take the bids.

We are officially informed that the Forty-Third St. Building Co., with a capital of $1,200,000, will begin soon the erection of a 12-story office building and theater on the Fitzgerald holdings at the southeast corner of Broadway and 43d St. The syndicate which will erect the building consists of Frank R. Tate, Theatrical Mgr. of St. Louis, Mo., associated with clients of Herbert T. Jennings, 204 Broadway, this city. Plans have been prepared by George Keister, Arch., 12 West 31st St., New York, for a building with two tiers below the level of the street, covering the entire Broadway frontage and extending back about 90 ft. in 43d St. A theater building will occupy the rear of the plot in 43d St., fronting in that street. The design of the exterior will be classic Renaissance. The business and office structure on Broadway will have three stories of white granite and limestone and above that will be semi-glazed tool-faced and white terra cotta. The theater front will be of the same materials as the Broadway front, with a similar facade, crowned with a classic cornice and balustrade. The main entrance to both theater and office building will be the southerly end on Broadway, with a spacious entrance vestibule to both, and a separate lobby for each. The lessees have let the contract for the construction of the building to the C. L. GRAY CONSTRUCTION CO., 42 Broadway. The cost is estimated approximately at $1,000,000. Noted on Oct. 7.

We have been advised that J. G. Rogers, Arch., 11 East 24th St., has filed plans for a 4-story and attic dwelling, to be built at the northwest corner of Park Ave. and 64th St., for Jonathan Bulkley, of Brooklyn. It is to be of limestone, in the style of Louis XVI period, ornately decorated, having a central entrance and ornamental balconies at casement windows, and will be crowned with a mansard and balustrade. It is to have a frontage of 74 ft. and a depth of 32 ft., and will cost $40,000. Contracts will be let probably in March.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Dec. 27, by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for pupils' water closets, urinals, private drains, relaying yard pavements, etc., at Public School No. 24, Kappock St., Spuyten Duyvil, Boro. of the Bronx; (2) for alterations and additions to the heating apparatus of Morris High School, on 166th St., Boston Road and Jackson Ave., Boro. of the Bronx; (2) for the general construction, etc., of additions to and alterations in Public School No. 132, on the westerly side of Wadsworth Ave., between West 182d and 183d Sts., Boro. of Manhattan.

NEW YORK, N. Y.—Bids are asked by Robert W. Hebberd, Comr. Dept. of Public Charities, until 2.30, Dec. 27, for furnishing all the labor and materials required for the erection and entire completion of new Bradford St. Hospital, Boro. of Brooklyn, the City of New York. Noted on Dec. 2.

MAMARONECK, N. Y.—Plans have been completed and excavations have been made for the $60,000 addition to the home of Albert C. Bostwick, 66 Broadway, New York, at Mamaroneck. Harry St. Clair Zogbaum, 1 Madison Ave., New York, is Arch. GEORGE MERTZ SONS, of Port Chester, N. Y., have the contract.

VERONA, N. J.—Bids are asked until 4.30 p. m., Dec. 16, by the Trustees of the Newark City Home, City Hall, Newark, for the erection and completion of a 7-room brick school building, to be erected at the City Home, Verona. Gustavus Staehlin, 238 Washington St., Newark, N. J., is Arch. Carl Heller is Secy.

PHILADELPHIA, PA.—We are officially advised that Ralph E. White, Arch., Pennsylvania Bldg., has prepared plans for a parish house for Christ Church, to cost $100,000.

The contract for alterations and additions to the property 1308 Arch St., bought a few weeks ago by Huey & Christ, 1209 Market St., for $60,000 from the Reman Estate, has been let to JOSEPH BIRD, 213 North Eleventh St. The property is to be altered into a store and warehouse for the purchasers, who will move from their present location on Market St. when the changes have been completed. The improvements include a new front, interior alterations and a 2-story rear addition, 20 x 35 ft.

According to the Philadelphia "Record," announcement has been made that J. Fred Zimmerman, Jr., of the theatrical firm of Nixon & Zimmerman, would erect a theater on the north side of Market St., west of 52d St., the front portion of which will be used for a public hall and rooms for secret societies and meetings. A lot 60 x 225 ft., extending to Filbert St., has already been purchased by Mr. Zimmerman. The Market St. end will measure 60 x 100 ft. and will be three stories in height, of which the first floor will be used for the lobby leading into the auditorium proper, which will measure 118 x 125 ft. This will have a seating capacity of 2,400. The building will be of reinforced concrete and stone, and will be entirely fireproof with ample exits. The enterprise will require an outlay of $200,000. It is expected to begin the work of erection after Jan. 1, so as to have the house ready for the opening next fall. W. Taylor, the Mgr. of the Liberty Theater, at Broad St. and Columbia Ave., will be the manager of the new theater.

Bids for the erection of an 8-division wing to the Pastorius School, Woodlawn Ave. and Sprague St., Germantown, were opened on Dec. 7 by the Property Committee of the Board of Education, and the lowest bid was found to be that of the Mitchell Bros., 2123 Race St., at $77,259. The addition will accommodate 320 children, who are now on half time in the Spencer Roberts building, and several small rented buildings, which will be discarded. The bids submitted were: Mitchell Bros., $77,259; John H. Jordan, 31st and Oxford Sts., $79,785; Wayne Construction Co., $80,919; H. E. Baton, 1221 Arch St., $81,902; Cramp & Co., Commonwealth Bldg., $82,292; B. Ketcham's Sons, 1029 Brown St., $83,620, and David Peoples, Betz Bldg., $83,883.

Bids are asked by the Committee on Property at the office of the Board of Education until Dec. 21 for constructing a 3-story, 27-division fireproof school building. J. Horace Cook is Arch., City Hall.

BUTLER, PA.—The Directors of the Butler Savings & Trust Co., at a recent meeting, awarded to SCHENCK & SON the contract for the proposed bank building. This firm submitted the lowest bid. The work of tearing down the old frame building on Jefferson St., next to the Berg Building, will go forward at once. It is the plant to have the Jefferson St. end of the new bank building completed as soon as possible. This will be occupied then as banking quarters while the main part of the building on Main St. is being built. The contract specifies that the building shall be completed by June 1, 1910.

WASHINGTON, D. C.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office extension at New Brunswick, N. J., to WILLS & MARVIN CO., 1170 Broadway, New York, at $28,702. Time, Dec. 1, 1910. Also for an extension to the post-office at New London, Conn., to W. H. FISSELL & CO., 1133 Broadway, New York, at $33,970. Time, Jan. 1, 1911. Also for the extension to the post-office at Montgomery, Ala., at $14,800. Time, Aug. 1, 1910.

FORT MUNROE, VA.—Bids are asked until 10 a. m., Jan. 10, by Capt. Ernest R. Tilton, Q. M., for the construction, including plumbing, heating, electric wiring and fixtures, of an engineer's storehouse at Fort Monroe, Va.

HUNTINGTON, W. VA.—Pritchard & Robinson, Charleston, has purchased a lot in Ninth St., this city, from the Congregational Church for $65,000. On the site they will erect a 14-story fireproof hotel to cost $1,000,000.

*HENDERSON, N. C.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Jan. 17, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Henderson.

ATLANTA, GA.—Frank P. Rice, of Atlanta, has let the contract to DONALDSON & PEARSON for the erection of a $40,000 3-story brick building, at the corner of Fairlie and Luckie Sts. It will have a frontage of 110 ft. on Luckie St. and 92 ft. on Fairlie St. The first floor will be used for stores, the second floor will be arranged for bachelor apartments and the third floor will be used as lofts for manufacturing purposes. The plans for the building were drawn by Morgan & Dillon, Archs., Prudential Bldg.

MEMPHIS, TENN.—Press reports state that the officials of the Memphis Union Station Co. have formally accepted the ordinance granted by the Legislative Council of this city, providing for building the proposed union terminal passenger station, and work on the latter is to begin at an early date. The estimated cost of the terminals is $3,000,000, and it is understood that the stockholders have determined to rush the work. The Memphis Union Station Co. is composed of the Louisville & Nashville, the Nashville, Chattanooga & St. Louis, the Southern Railway, the St. Louis, Iron Mountain & Southern, the St. Louis Southwestern and the Union Railway Co., the latter being an adjunct of the Missouri Pacific system. There is a possibility that the Rock Island and the 'Frisco systems, which have been legally separated, may enter the new station, but nothing definite has been decided on this score. The two roads, before their separation, bought terminal property valued at $400,000 to $500,000. Noted on Oct. 7.

COLUMBUS, OHIO.—The plans for the theater building to be erected at 31 West Broad St. are complete. The architect is A. W. Johnson, Spitzer Bldg., Toledo, Ohio. George F. Hile, who will manage the theater, will let the contracts separately at once. The building will have an auditorium 62½ x 110½ ft., seating 1,200 people. The front of the building will be three stories high, of white enamel brick, with ars glass windows. The interior will be decorated in russet, yellow and gold. The company back of the theater is Austin B. Hatch, George F. Hile, Thomas W. Pickard, J. C. Sullivan and two others.

LANCASTER, OHIO.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded to HENRY KARG, Westerville, Ohio, contract for the construction of a post-office at Lancaster, Ohio, at $52,455. Time, Jan. 1, 1911.

MISHAWAKA, IND.—The Dodge Mfg. Co. is to erect an additional warehouse for finished product. The plans call for a structure of reinforced concrete 256 x 112 ft., four stories high, with a basement. It will cost about $160,000.

INDIANAPOLIS, IND.—The Prest-O-Lite Co. has ordered plans on which bids will be asked for the erection of a warehouse on South Alabama St.

The Trustees of the Knights of Columbus Home Association has ordered plans on which bids will be asked for the erection of a club house on North Illinois St., near Walnut St.

The Trustees of the Methodist Hospital Association, W. C. Van Arsdell, Chn., are preparing to ask for bids for the erection of building on the Capital Ave. Hospital grounds.

EAST ST. LOUIS, ILL.—Henry Ziegenhein, of St. Louis, Mo., will construct a $1,500,000 hotel and theater near Collinsville and St. Louis Aves., in East St. Louis, within a year. The announcement was made at the Commercial Club meeting recently by Robert W. Sikking, Jr., Chn. of the club's Hotel Committee. According to the announcement, which was dictated by Mr. Ziegenhein, the hotel will be built as soon as the lease on the theater on the proposed site expires, which will be about July 1, 1910. It will be ten stories high, 88 x 196 ft., and will cost, approximately, $1,500,000. It will be called The Ziegenhein.

DES MOINES, IOWA.—Harry Coggeshall will begin soon the erection of a $50,000 building at the southeast corner of West Seventh and High Sts. The building is to cover an area of 66 x 132 ft., and will be three stories high. The first floor will be divided into store rooms and the second and third floors will be occupied by apartments. It is Mr. Coggeshall's intention to have the building completed by Aug. 1, 1910. The plans of construction have not been fully decided upon, but it is probable that the building will be practically a steel and brick structure, so that three more stories may be added later. Mr. Coggeshall owns 66 ft. on Seventh St. and 132 ft. along High St., directly opposite the Grant Club.

B. A. Youker is to build a 3-story hotel at the northeast corner of Seventh St. and Grand Ave., at a cost of about $40,000. The hotel will run north on Seventh St. to the Coggeshall property, where the store and apartment building is to be erected.

WICHITA, KAN.—Richards, McCarty & Bulford, The Ruggery, Columbus, Ohio, Archs., have let the contract for the 10-story reinforced concrete building for the Beacon Building Co. to the SELDEN-BRECK CO., Fullerton Bldg., St. Louis, Mo., on their bid of $270,000, exclusive of fittings and fixtures. E. K. Hibbs, of Columbus, bid on the building also.

An auditorium will be erected by the city of Wichita at a cost of about $150,000, the plans for which are now being prepared by Richards, McCarty & Bulford, Archs., The Ruggery, Columbus, Ohio.

*FORT MEADE, S. DAK.—Bids were received on Dec. 6 by Capt. James S. Parker, Const. Q. M., for constructing (a) one double set of quarters for two company officers and (b) four 1½-story cavalry stables, each 67 x 156 ft., and for installing plumbing, heating, electric wiring and electric lighting fixtures in buildings specified and for the construction of roads, sidewalks, gutters and drains. The following are the lowest bidders: (a) Groms & Schummer, of Sturgis, S. Dak., estimated cost of buildings, $21,000, equipment, $5,300; (b) Mullholen & Hartbrink, of Sturgis, estimated cost, $70,000; equipment, $4,300.

FORT MACKENZIE, WYO.—Bids are asked by the Constructing Q. M. for the construction, plumbing and electrical wiring of a brick stable for 50 horses, Plan 139-L.

ST. LOUIS, MO.—Bids for erecting the Ashland School on Newstead Ave., between San Francisco and Margaretta Aves., were received on Dec. 6 by William B. Ittner, Comr. of School Buildings. The lowest bid was $189,519, made by C. O. A. Brunk. Nine bids were made, the highest being $209,676. The estimate of the Commissioner of School Buildings was $190,000. The building will have 22 rooms and kindergarten, will be two stories high and is to be completed by Jan. 1, 1911.

All bids for the completion of the proposed Municipal Courts building were above the amount appropriated for the work, and probably new bids will be ordered. In the meantime the matter is before a committee of the whole board. Four proposals were received, the C. L. Gray Construction Co., Victoria Building, St. Louis, Mo., successful bidders on the first section of the work, were the low bidders on the new work. Their figure was $299,823. The Hiram Lloyd Construction Co. bid $321,417; Kellerman Construction Co. bid $329,000, and Hill-O'Meara Construction Co. bid $339,560. The Board has asked the Law Department if the bid of the C. L. Gray Construction Co. may be accepted, but it is not thought likely this can be done under the provisions of the Charter.

LITTLE ROCK, ARK.—Plans are being completed by Herts & Tallant, 113 East 119th St., New York, for a theater and hotel building for I. Kempner, of Little Rock. The structure will be three or four stories high, 80 x 100 ft., and will cost $90,000.

On Dec. 7, the State Capitol Commission awarded the contract for the completion of the State Capitol building to WILLIAM MILLER & SONS CO., 28 Federal St., Pittsburg, Pa., at $535,718. C. L. Gray Construction Co. was next lowest bidder at $560,478. The bids were revised in order to come within the legislative appropriation. Something in excess of $125,000 was cut from the original bids. The mechanical plant was among items stricken out.

MEDFORD, ORE.—Plans and specifications are being considered for the construction of a 4-story business block on the northeast corner of Seventh St. and Riverside Ave., on property owned by J. M. Root and J. E. Enyart. The building will be built of reinforced concrete, the estimated cost of which will be $60,000. The first story will be used for mercantile purposes and the upper three stories for office rooms.

SAN FRANCISCO, CAL.—At a recent meeting of the Board of Public Works, contracts were awarded for the construction of the Denman Grammar School as follows: HENNING & BUERKE, general construction, $89,333; plumbing, WILLIAM S. SNOOK & SONS, 602 Clay St., $5,496; steel work, McCORMICK-HENDERSON CO., $26,000; vacuum cleaning, AMERICAN AIR CLEANING CO., $608; plastering, JAMES F. SMITH, $8,650; heating and ventilating, JOHN G. SUTTON CO., $12,986; electric wiring, JOHN G. SUTTON CO., $1,440. For the construction of the West End Primary School the following contracts were awarded: General construction, McSHEEHY BROS., $34,942; heating and ventilating, ROBERT DALZIEL, JR., CO., $10,537; plumbing, KIERNAN & O'BRIEN, $4,425; vaccum cleaning, AMERICAN AIR CLEANING CO., $699; plastering, GUST. JOHNSON, $8,690; electric work, NATIONAL ELECTRIC CO., $1,150.

Plans have been completed for the proposed Olympic Club buildings in the Post St. lot, owned by the club. Paff & Baur, 1106 Ellis St., are Archs. The building will be five stories high and will have a frontage of 200 ft. in Post St. It will have a granite face and granite columns. The first three stories will be of sandstone and the upper two stories will be of pressed brick. The rear of the structure will be occupied entirely by the gymnasium with an area of 170 x 140 ft. All the arrangements are on a large scale. The lower floor will be used exclusively for baths. Included in the path part of the structure will be a salt water tank 140 ft. in length. The lower floor will be finished in marble and glazed tile. On the second floor the reception room, offices and directors' room are to be placed. The third floor will be devoted to the main dining room, a large lounging room and a billiard room. On the upper floors the space will be divided into living rooms for the members. There will be a running track on the roof, a solarium and a roof garden. The quarters will be ready for occupation the first day of 1911.

LOS ANGELES, CAL.—Construction of the 10-story and attic office building, to be erected at the northeast corner of Fifth and Spring Sts., will be begun July 1, a contract for part of the structural material having been let. The Chester Fireproof Building Co., which will erect the structure, is composed of A. C. Billicke, R. A. Rowan and associates, who are interested heavily in real estate and in other building operations in Los Angeles. The lot on which the Chester Building will be constructed is held by the Chester company under a 50-year lease from the estate of Mrs. Carrie Jones. The lot is of irregular shape, having a frontage of 95 ft. and a depth of 159 ft. on Spring St. to an alley. The building will have these dimensions and in addition there will be a wing, 60 x 140 ft. on the east side of the lot. There will be stores on the first floor, and the building will contain a total of about 500 offices. On the Spring St. side will be a recess court, 50 x 60 ft. This, as well as the Spring St. front, will be ornamented. Steel and cement will be used in construction. An order for the steel has been placed with the BAKER IRON WORKS, Buena Vista St. The plans were prepared by Parkinson & Bergstrom, Security Bldg.

A lot at 7 and 8 Bixel St., 140 x 200 ft., Los Angeles, Cal., has been purchased by Joseph Black, of San Francisco, Cal., who will erect a hotel and apartment house at an estimated cost of from $100,000 to $150,000.

Parkinson & Bergstrom, Archs., Security Bldg., Los Angeles, have plans in preparation for a high school building, to be erected at Vermont Ave. and 40th St., Los Angeles. Estimated cost, $245,000.

The PAUL HAUPT CENTRAL BUILDING CO., Laughlin Bldg., Los Angeles, has the general contract for the erection of the proposed office building at Sixth and Spring Sts., for the Los Angeles Trust Co. and the Metropolitan Savings Bank. The plans, which are being prepared by Parkinson & Bergstrom, Security Bldg., will call for an 11-story building, 60 x 165 ft., and of steel and terra cotta construction. The LLEWELLYN IRON WORKS, of Los Angeles, has the contract to furnish the steel work.

SAN DIEGO, CAL.—Henry Lord Gay, Arch., Keating Bldg., San Diego, Cal., has completed plans and awarded the general contract to GALLAGHER & BROWN, of San Diego, for a 5-story theater and office building for Jean Johnson, Jr., of Escondido, Cal., to be erected at Fifth and B Sts., San Diego. The building will be 50 x 100 ft., and will cost $40,000, exclusive of elevators and electric wiring. It will have concrete foundation and basement, enameled brick front, gravel roof, maple floors, plate glass windows, fine trim, passenger and freight elevators.

PHOENIX, ARIZ.—The Presbyterian Congregation of Phoenix has purchased property on which they will erect a church building to cost $50,000.

The Episcopal Vestry at Phoenix has purchased a lot on which to erect a $50,000 church building and rectory.

John D. Toper, Supt. Schools, Phoenix, will receive plans and specifications until Jan. 2 for the construction of a school building as follows: Grammar school, 14 class rooms, bath tube, toilets, lavatories, 2-story, classical design, brick veneer, with light colored pressed brick, heating system, vacuum cleaning system. Estimated cost, $70,000.

TORONTO, ONT.—Bids are asked by Napoleon Tessier, Secy. Dept. Pub. Works, Ottawa, Ont., until 4 p. m., Dec. 20, for alterations and fittings at the Drill Hall, Toronto.

WATER-SUPPLY—IRRIGATION.

NEW YORK, N. Y.—Bids are asked by John H. O'Brien, Comr. Water Supply, Gas and Electricity, until 2 p. m., Dec. 17 (postponement from Dec. 3 and Dec. 10), for furnishing, delivering and laying a trunk distribution main and appurtenances in Glenmore, Pennsylvania and Bushwick Aves., and in Madison St., Boro. of Brooklyn.

Bids are asked until 2 p. m., Dec. 22, by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for furnishing and delivering supplies for pumping stations, reservoir and repair yards, and for furnishing and delivering pipe, pipe fittings, valves, boiler tubes, etc.

*NEW YORK, N. Y.—Bids were received by the Board of Water Supply on Dec. 2, for Contract 62, for the construction of seven steel pipe siphons, consisting of riveted steel shell, 9 ft. 6 ins. nominal inside diameter, enveloped with concrete and lined with Portland cement mortar, aggregating about 3.7 miles; also several stretches of aqueduct in open cut and on embankment, or cut-and-cover aqueduct aggregating about 3,000 ft. The work is located in the towns of Olive, Ulster County, New Windsor, Orange County, Philipstown, Putnam County, and Cortlandt, Westchester County: SNARE & TRIEST CO., 143 Liberty St., New York, $1,-643,365 (awarded contract); American Pipe & Construction Co., 112 North Broad St., Philadelphia, Pa., $1,851,305; F. V. Smith Contracting Co., 125th St. and Lexington Ave., New York, $1,955,420; East Jersey Pipe Co., 90 West St., New York, $2,062,900; Pittsburg Contracting Co., 1942 Forbes St., Pittsburg, Pa., $2,081,702. J. Waldo Smith is Ch. Engr. (Itemized bids will be given under Contract Prices next week.)

*NEW YORK, N. Y.—Bids were received as follows by the Board of Water Supply, J. Waldo Smith, Ch. Engr., on Dec. 8, for Contract 30 for construction of Hill View reservoir and appurtenances, and portions of the Yonkers and Van Cotrlandt siphons of Catskill aqueduct: MILLARD CONSTRUCTION CO., Pennsylvania Bldg., Philadelphia, Pa., $3,289,280 (awarded contract); Elmore Hammond Construction Co., Albany, $3,438,473; George W. Rogers, 29 Broadway, New York, $3,765,440; T. A. Gillespie Co., 90 West St., New York, $3,788,057; Foye Root Co., 20 Broad St., New York; $3,-803,260; American Pipe & Construction Co., 112 North Broad St., Philadelphia, $3,887,-225; J. F. Cogan, of Brewsters, N. Y., $3,-341,975.

LITTLE FALLS, N. Y.—The only bid opened by the Board of Public Works on Nov. 19 for constructing a water main to the plant of the Synite Rock Co., in eastern part of city, was submitted by the Cooper-Snell Co., at $5,250; Engineer's estimate, about $2,800.

BROOKLYN, N. Y.—The lowest bid received on Dec. 3 by the Dept. of Water Supply, Gas and Electricity for furnishing, delivering and laying a trunk distributing main in Albany, Clarkson, Woodruff and other avenues, and in 15th St., was that of the Harlem River Contracting Co., 21 Park Row, at $251,089.

IRONDEQUOIT, N. Y.—Bids will be received by the Commissioners of the Summerville Water District of the town of Irondequoit, 328-330 Powers Bldg., Rochester, until noon, Dec. 20, for constructing a water-works system, including an 8-in. c.-i. pipe crossing of the Genesee River and a distribution system complete with appurtenances at Summerville and Windsor Beach. J. E. Summerhays is Secy.

JERSEY CITY, N. J.—Contract has been awarded to the U. S. CAST-IRON PIPE & FOUNDRY CO., 71 Broadway, New York, by the Board of Street and Water Commissioners for furnishing 200 lengths of 6-in., 3,000 lengths of 8-in., 500 lengths of 12-in., and 200 lengths of 20-in. c.-i. water pipe, at $24.30 per ton.

PITTSBURG, PA.—Bids were opened on Nov. 18 by the Department of Public Works, Joseph G. Armstrong, Dir., for laying water mains. Contract has been awarded to THOMAS CRONIN CO., South 17th and Muriel Sts., Pittsburg, for the Jane St. system, at $4,682.

BALTIMORE, MD.—Bids are asked until 11 a. m., Dec. 22, by the Board of Awards for furnishing and delivering to the Water Board such supplies as may be required for the year ending Dec. 31, 1910. J. Barry Mahool is Pres. Bd.

KIMBALL, VA.—See item under Light and Power Plants.

WHEELING, W. VA.—Bids are asked until 2 p. m., Dec. 21, by the Board of Control for the construction, delivery and erecting at the Wheeling water-works pumping station a new pump house, pumping pit, river intake line and crane runways. C. C. Schmidt is Mayor.

BIRMINGHAM, ALA.—The Tennessee Coal, Iron & R. R. Co., George G. Crawford, Pres., has awarded contract to the DRAVO CONTRACTING CO., Lewis Block, Pittsburg, Pa., for the construction of a dam for proposed water-works . The pumping station will have a daily capacity of 25,000,000 gallons.

*JACKSON, MISS.—Bids will be received by the Water Commission until 3 p. m., Jan. 22, for boring the necessary artesian wells and furnishing machinery for pumping same to provide a supply of not less than 4,000,000 gallons per day of 24 hours for the use of city water-works. Hamilton Johnson is Gen. Mgr.

*GULFPORT, MISS.—We are officially advised that bids were received by the city on Dec. 7 for laying 14,580 ft. of 8-in. pipe, 27,700 ft. of 6-in. pipe and 2,000 ft. of 4-in. a total of 44,280 ft. of piping; also for construction of pumping station, furnishing of fire pump, one constant-duty pump and fire-alarm system. Estimated total cost, about $50,000. Contracts have been awarded as follows: For furnishing c.-i. pipe and specials, to AMERICAN CAST IRON PIPE & FOUNDRY CO., of Birmingham, Ala., at $20,690; for distributing and laying pipe, to A. C. JONES, Opelousas, La., at $6,421; for 10, 8 and 6-in. valves, to FAIRBANKS CO., New Orleans; for 4 and 6-in. fire hydrants, to COLUMBIAN IRON WORKS, of Chattanooga, Tenn.; for extension valve boxes, to FAIRBANKS CO.

WINCHESTER, TENN.—The city will improve the water-works system.

CENTERBURG, OHIO.—Bids will be received by S. Robert Best, Village Clk., until Dec. 17 from engineers for the preparation of plans and specifications for water-works and sewers.

EAST LIVERPOOL, OHIO.—Bids were opened by the Board of Public Service, A. S. Hughes, Clk., on Dec. 1 for furnishing material and constructing a system of mechanical filters, reinforced concrete subsiding basin, laying c.-i. water pipe and constructing filter house, from plans of John W. Hill & Son, 506 First National Bank Bldg., Cincinnati, as follows: Sand & Gravel Co., East Liverpool, $59,063; Pitt Construction Co., Pittsburg, Pa., $59,658; Kaps-Brehm Co., Cincinnati, $60,188; Reinhart Bros., East Liverpool, $60,948; Joseph Gradison, Cincinnati, $61,077.

CHICAGO, ILL.—Bids were opened on Nov. 9 by John J. Hanberg, Comr. Pub. Wks., for furnishing material and erecting the superstructure of the Roseland pumping station at 104th St. and Stewart Ave. Contract has been awarded to the WARNER CONSTRUCTION CO., Opera House Blk., at $229,864. The contract for the plumbing, drainage, gas fitting and heating in pumping station has been awarded to C. J. STEIN, 479 S. State St., at $10,600.

BLOOMINGTON, ILL.—Bids will be received by the Water Board, F. H. Lamp, Supt., until Dec. 28, for remodeling water-works, to include a 6,000,000-gallon pump, boilers, etc.

RIVERSIDE, ILL.—See item under Streets and Roads.

MINNEAPOLIS, MINN.—We are officially advised that bids for two boilers for pumping station No. 4 were received by the City Council on Dec. 10 as follows: S. Freeman & Sons Mfg. Co., Racine, Wis., $6,900; R. B. Whitacre & Co., St. Paul, Minn., $7,487; Cadwell & Brown Co., Minneapolis, $7,543; Marine Boiler Works Co., Toledo, Ohio, $9,-200; Babcock & Wilcox Co., Chicago, Ill., $9,630; Robinson-Cary-Sands Co., St. Paul, $9,795. Andrew Rinker is City Engr.

BOTTINEAU, N. DAK.—Bids were opened furnishing material and constructing water on Nov. 30 by R. D. Carlson, City Audr., for main extensions in Sinclair, Seventh, Brander, Ohmer and Bennett Sts., Water Main District No. 1, requiring 6,860 ft. of 6-in. c.-i. pipe, hydrants, valves, etc. Contract has been awarded to GILBERT W. HAGGART, of Fargo.

KANSAS CITY, MO.—Bids will be received by E. Winstanley, Pur. Agt., until Dec. 23 for one 15-ton electric traveling crane and one 15-ton automatic air lift, to be installed at the Turkey Creek pumping station of the Kansas City water-works, specifications for which will be furnished on application.

CONWAY, ARK.—The Commissioners of Water-Works Improvement District No. 1 of Conway, are prepared to receive bids for an 8-in. deep-well. George Wilson is Secy.

APACHE, OKLA.—The city has voted $30,-000 of bonds for the construction of water-works. The Southwestern Engineering Co., Oklahoma City, Okla., will furnish plans, specifications and estimate of cost. H. Peeper is Mayor.

FORT COLLINS, COLO.—Bids have been received by the Laramie-Poudre Reservoirs & Irrigation Co., W. Hibbard, Mgr., Fort Collins, for constructing a tunnel, 12,000 ft. long, 6×10 ft. through mountain, every indication solid granite, 275,000 cu. yds. ditch construction, 75% same solid rock; 125,000 cu. yds. dirt embankment for reservoir dam, about 60 miles west of here. Contract has been awarded, it is reported, to J. A. McILWEE, of Cripple Creek, at about $375,000.

CATHLAMET, WASH.—The date of opening bids for constructing water-works has been extended from Nov. 30 to Jan. 3.

PORTLAND, ORE.—The Water Board, D. D. Clark, Engr., has awarded contract for steel pipe for connecting mains, Reservoirs 5 and 6 to the EAST JERSEY PIPE CO., 90 West St., New York, at $40,071, delivery to begin in 60 days and to be compelted Feb. 15.

FULLERTON, CAL.—Application has been made by the owners of St. Helena Orchards near here for a franchise to pipe water into Fullerton A reservoir with a capacity of 1,-000,000 gallons, will be built north of the town. Mrs. Gertrude B. Miller of New York is owner of the tract.

LOS ANGELES, CAL.—Two large steel siphons for the Owens River aqueduct are to be bought by the Board of Public Works soon. Specifications for them have been adopted and call for an approximate expenditure of $40,000. The siphons are to connect tunnels between hills and carry water from level to level, where the height above the bottom of the valley is too great and the top too wide for bridging Each will be of open hearth steel ¼-in. thick, with a tensile strength of 50,000 lbs. to the square inch. The internal diameter will be nine feet. The siphon for the Dove Springs connection will be 1,032 ft. long and another for the San Antonio canon will be 695 ft. long. Both are in the Jawbone division, Section No. 1.

YUMA, ARIZ.—The Secretary of the Interior, Washington, D. C., has authorized the U. S. Reclamation Service to spend $150,000 for the construction of a siphon across Colorado River to supply water to the lands in the vicinity of Yuma.

RENO, NEV.—The Truckee-California Irrigation Co. of Reno will expend $500,000 during the coming year on dams, reservoirs and tunnels projected for the purpose of irrigating land tracts north of here. O. B. Bergiun of Gunnison, Utah, and W. R. Tallestrup of Salt Lake City, Utah, are interested. Incorporation papers have been filed and the company is capitalized at $2,000,000.

TORONTO, ONT.—Bids are asked by Joseph O'Brien, Mayor and Chn. Bd. of Control, until noon, Dec. 21, for the supply of 48-in. special castings for the connection between the water-works tunnel and the new 15,000,000-gallon engine. C. H. Rust is City Engr.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

*EAST PROVIDENCE, R. I.—We are officially advised that bids were received as follows on Dec. 2 by the Board of Sewer Commissioners, Watchemoket Fire District for constructing various sewers: ANTONIO G. TOMASELLO, Dorchester, Mass., $64,845 (awarded contract); Ryan Unmack Co., New Haven, Conn., $67,648; Antony Cefalo, Boston, Mass., $68,064; Pettaconsett Construction Co., Providence, R. I., $72,022; Joseph B. O'Rouke Co., Boston, Mass., $74,138; David Peoples, Betz Bldg., Philadelphia, Pa., $77,-674; Bruno & Petitti, Boston, Mass., $79,-749; Edmund P. Sanger et al., Mt. Kisco, N. Y., $83,689. The City Wastes Disposal Co., 156 Fifth Ave., New York, Engr.

NARRAGANSETT PIER, R. I.—The Sewer Committee has let contract to JOHN BRISTOW, of Narragansett Pier, for the construction of sewers and a disposal plant. T. G. Hazard is Chn.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., Dec. 22, by Bird S. Coler, Boro. Pres., for constructing a sewer and sewer basins in various streets.

NEW YORK, N. Y.—John F. Murray, Pres. Bronx Boro. has awarded contracts for sewers as follows. For sewers and appurtenances in a portion of Grand Boulevard and Concourse, both sides, to PERILLO & SHIEL, at $3,927; for sewer and appurtenances in West 171st St., between Harlem River and Sedgwick Ave., and in Sedgwick Ave., between West 171st St. and Commerce Ave., to JOSEPH HAIDURCU, at $9,874.

GLOVERSVILLE, N. Y.—Bids are asked until noon, Dec. 21, by Morrell Vrooman, City Engr., for the construction of a sewage disposal plant at Gloversville, N. Y. The work includes 1,000 ft. of outfall sewer, two primary vertical settling tanks, two secondary vertical tanks, three acres of sprinkling filters, three acres of sludge beds. Harrison P. Eddy, 14 Beacon St., Boston, Mass., is Consulting Engr.

BATAVIA, N. Y.—Bids are asked until 10 a. m., Jan. 5, by the Clerk of the Board of Sewer Commissioners, for the excavation and construction of a sewage well at the municipal plant, and for the construction of an addition to the municipal building to house the new pumps, etc.

NEW ROCHELLE, N. Y.—Bids are asked until 8 p. m., Dec. 23, by the Board of Public Works for the construction of a sewer in Congress St. Richard Lathers, Jr., is Chn.

ROSELLE, N. J.—Bids are asked by the Borough Council until 8 p. m., Dec. 17, for the construction of 12, 10 and 8-in. pipe sewers. Jacob L. Bauer is Boro. Engr.

JERSEY CITY, N. J.—The Street and Water Board has awarded to the O'REILLY CO., contract for the construction of sewer in Lake St., at 83% of standard cost. G. T. Boulton is Clk.

*SEA GIRT, N. J.—Bids will be received at the office of C. Edward Murray, Quartermaster General, State Capitol, Trenton, until noon, Dec. 28, for furnishing material and installing a sewage disposal system at the State Camp grounds, Sea Girt.

PATERSON, N. J.—Plans for a sewer have been submitted to the Board of Works for relief of the Lakeview section of the city by H. J. Harder, City Engr. Estimated costs of pumping system and a gravity system, $208,114 and $190,828, respectively.

ALTOONA, PA.—Bids are asked until 8 p. m., Dec. 17, by the Board of Public Works, for the construction of two vitrified clay pipe sewers. G. A. Klesius.

MOUNT OLIVER, PA.—Bids are asked by the Borough Council until 8 p. m., Dec. 23, for the construction of 11¼ miles of sanitary sewers from 8 to 15-in. pipe, and appurtenances. William McClurg Donley is Boro. Engr.

*BALTIMORE, MD.—DAVID PEOPLES, Betz Bldg., Philadelphia, Pa., was awarded contract on Dec. 8 by the Board of Awards for lateral sewers, Contract 44, at $54,095 and for lateral sewers Contract 45, at $54,210. B. T. Fendall is City Engr.

WILMINGTON, N. C.—Bids will probably be asked in 60 or 90 days for the construction of a separate system of sewerage. C. R. Humphreys is City Engr.

CENTERBURY, OHIO.—See item under Water Supply—Irrigation.

PORTSMOUTH, OHIO.—The Board of Public Service has let contract to J. A. GRIMES, at $5,152, for the extension of the 18th. St. sewer.

COLLINWOOD, OHIO.—Bids are asked until noon, Dec. 21, by R. H. McIntosh, Secy. Bd. Pub. Ser., Cleveland, for furnishing and erecting a 2-motor, electric man trolley and clam shell bucket at the intercepting sewer outlet basin in Collinwood.

EVANSVILLE, IND.—Contract has been awarded for the Blackford Ave. sewer to the NEWMAN CONSTRUCTION CO., by the Board of Public Works at $10,000, to be completed in 90 days. The company was also given contract for a sewer between Blackford and Powell Aves., from Kenucky Ave. to McCormich Ave.

CHICAGO, ILL.—Bids were opened on Nov. 30 by he Board of Local Improvements for constructing a sewer in South 52d Ave. Contract has been awarded to the FEDERAL IMPROVEMENT CO., Rookery Bldg., Chicago, at $228,000. Ther bidders were: Nation Contracting Co., $216,000; Nash Bros., $230,000. John J. Hanberg is Comr.

GLENELLYN, ILL.—The city has retained the Astna Engineering Bureau, 125 LaSalle St., Chicago, Ill., to design and supervise the construction of a sewer system, including disposal plant. Estimated cost, $100,000. This work will be done during the year 1910.

RIVERSIDE, ILL.—See item under Streets and Roads.

TRAER, IOWA.—All bids opened on Nov. 29 by the city for the construction of a system of sanitary sewers have been rejected. New bids are asked by T. F. Stookes, City Clk., until Jan. 13. Iowa Engineering Co., of Clinton, is Engr. The lowest bid received was that of M. A. Cameron, of Harlan. Other bids were: Fraser & Davenport, Rochester, Minn., $16,287; Guy A. Smith, Indianola, $15,844; Turner Improvement Co., Des Moines, $15,074; Lytle Construction Co., Sioux City, $17,131; R. C. De Lafiunt, Cedar Rapids, $15,465; Independent Construction Co., Davenport, $16,975; Cook Construction Co., Des Moines, $15,871; W. A. Edgar, Cedar Rapids, $17,051; Thomas Carney & Sons, Clinton, $16,089; F. E. Kaminski, Watertown, Wis., $15,583; Dearborn & Jackson, Cedar Rapids, $17,133; W. E. Whitmer, Shenandoah, $16,582.

HOLTON, KAN.—Bids are asked until noon, Jan. 12, by G. H. Nervill, City Clk., for the construction of sewer system and disposal plant. The work includes 45,000 ft. of 8-in sewer, 64 manholes, 35 flush tanks, 14,000 ft. of 10, 12 and 15-in. sewer, 41 manholes and a disposal plant.

ABILENE, KAN.—Contract for constructing sewers here has been awarded to LYON & SNYDER, of Salina, Kan., at $4,661. T. Graves is City Clk.

SENECA, KAN.—We are officially advised that the city has voted $30,000 of bonds for the construction of a sewer system. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs.

WICHITA, KAN.—The Sewerage Commission on Dec. 6 awarded contract for the construction of the College Hill sewer to JOHN STRIFFLER at $119,280, and for the construction of the Riverside sewer to the ELY CONSTRUCTION CO., of Wellington, Kan., at $36,108.

NEBRASKA CITY, NEB.—G. A. DUNLAP, Tecumseh, Neb., has been awarded contract at $9,243, for the complete construction of a sewer system in District No. 3, including materials and labor. Bids were opened on Dec. 1.

*LINCOLN, NEB.—Bids are asked until 10 a. m., Dec. 27, by the Sanitary Board for the construction of a reinforced concrete conduit for Antelope Creek. R. C. Ozman is City Clk. For details see advertisement in this issue.

ALLIANCE, NEB.—Bids will be received until noon, Dec. 21, by F. W. Irish, City Clk., for the construction of lateral sanitary sewers.

JOPLIN, MO.—Bids will be received by O. E. Lichliter, City Clk., until Dec. 28 for the construction of the West Joplin public sanitary sewer, including the D St. and Smelter Hill public sanitary sewers.

GUTHRIE, OKLA.—See item under Water Supply—Irrigation.

VANCOUVER BARRACKS (Vancouver post-office), WASH.—We are officially advised that bids were received by the Constructing Quartermaster, U. S. A., on Dec. 1, for the construction of sewer laterals, flush tank and manholes on the rear line of the officers' quarters at this post. The bids were: Henrichsen & Sykes, Vancouver, Wash., $4,125; Giebisch & Joplin, Portland, Ore., $3,128; Rector & Daly, Voncouver, $2,680; M. R. Sparks, Vancouver, $3,930; George Gordon, Portland, $4,400. The work includes 2,243 ft. of 6-in. pipe, 1,064 ft. laterals, 6-in., one flush tank and six manholes.

SANTA PAULA, CAL.—See item under Streets and Roads.

SAN FRANCISCO, CAL.—Bids are asked until Dec. 29 by the Board of Public Works for the construction of sewers in the Richmond District, in 31st Ave., between California and Clement Sts. Marsden Manson is City Engr.

OGDEN, UTAH.—Bids are asked until 8 p. m., Dec. 20, by A. F. Parker, City Engr., for the construction of sewers in Sewer District No. 101 in Childs Ave., from 29th St. south 347 lin. ft.

PAYETTE, IDAHO.—Bids are asked until Dec. 20 by the city for the construction of salt-glazed vitrified clay pipe sewers. Bonds for $38,000 were voted on Nov. 29. R. J. Wood, of Weiser, Idaho, is Engr.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

POLAND, ME.—Bids are asked by Paul D. Sargent, State Highway Comr., Augusta, Me., until noon, Dec. 22, for constructing a section of trunk line state road, about 5,362 ft. long, in the town of Poland.

LAWRENCE, MASS.—The contract for paving with granite block a portion of Merrimack St. has been awarded to PHILIP HOLLAND, of Lawrence, at $2.25 per sq. yd.

PITTSFIELD, MASS.—The LEY CONSTRUCTION CO., Springfield, Mass., has secured the contract for grading at the Stanley plant. A hill to the north of the main building is to be leveled and work will be started at once. Steam shovels will be used in doing the work.

BUFFALO, N. Y.—Bids were received on Dec. 8 by the Commissioner of Public Works for street improvement. The lowest bids follow: For macadamizing North Park Ave., from Hertel to Tacoma Sts., Joseph F. Stabell, $7,315; for paving Norwalk Ave. with asphalt, German Rock Asphalt & Cement Co., D. S. Morgan Bldg., $11,270; for macadamizing Saranac Ave., Joseph F. Stabell, $13,490; for paving Grimes St. with asphalt, H. P. Burgard, 275 Lathrop St., $12,000;

for paving Reimann St. with asphalt, H. P. Barnard, $12,000; for constructing a 12-in. tile sewer in Saranac Ave., Spies & Fahning, $325.

DOBBS FERRY, N. Y.—Bids are asked until 8 p. m., Dec. 28, by the Town Council, for constructing a new street 700 ft. long. Work will include grading, gutters, concrete retaining walls, etc. Bids are asked upon either macadam or vitrified brick in concrete foundation. Estimated cost, $30,000. Oswald Shuler is Town Clk.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Dec. 30, by the Park Board, Henry Smith, Pres., for paving with asphalt the unpaved existing walks in St. Mary's Park, in the Boro. of the Bronx, in the city of New York.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Dec. 23, by the Park Board, Henry Smith, Pres., for regulating, grading and laying rock asphalt mastic walks and making other improvements in the grounds adjacent to the new comfort station opposite Grant's Tomb, in Riverside Park, Boro. of Manhattan.

Bids are asked by Bird S. Coler, Pres., until 11 a. m., Dec. 29, for regulating and repaving and constructing sidewalks in Brooklyn.

On Dec. 6 bids were received by Lawrence Gresser, Pres. of Boro. of Queens, for nine highway improvements in Long Island City. There were 58 bidders. The most important of the improvements is the regulating, grading, curbing and laying sidewalks in the new diagonal street extending from Jackson Ave., opposite Queensboro Bridge Plaza and on the steel viaduct over the Sunnyside yard of the Pennsylvania R. R. Co., and thence to Thomson Ave., at the intersection of Van Dam St. The work is to be completed in 120 working days. The highway is to be 100 ft. in width, and will connect the big bridge with all parts of the borough south of the railroad. The lowest bidder for the work was the Atlantic Construction Co., at $16,-763. The low bidders for regulating and grading in Jackson Ave., from Woodside Ave. to Trains Meadow Road, calling for 129,000 cu. yds. of embankment and 3,000 cu. yds. of excavation, were Hicks, Johnson & Co., at $50,184; for regulating and grading South Washington Pl., from Academy St. to Jackson Ave., Cooper & Evans, 220 Broadway, New York, at $48,040; for flagging sidewalks on Sixth Ave., from Jackson to Graham Aves., and paving Broadway with asphalt blocks on a concrete foundation from Jackson to Pierce Aves., the Sicilian Asphalt Co. was the lowest bidder at $19,355; for regulating, grading and laying sidewalks on Fourth Ave., from Broadway to Graham Ave., John F. Clancy's bid was lowest at $7,434; for the same work in Woolsey Ave., from Second Ave. to Halsey St., the Astoria Construction Co., $13,439; regulating and grading Hunter's Point Ave., from Van Dam St. to the east approach of the bridge crossing the tracks of the P. R. R., Degnon Realty & Improvement Co., $12,000; for grading and laying sidewalks on Woolsey Ave., from Tenth Ave. to Park Pl., James V. Troist, $10,834.

NEW YORK, N. Y.—On bids received Nov. 24 contracts have been awarded by Bird S. Coler, Pres. of the Boro. of Brooklyn, for regulating and paving with asphalt pavement on a concrete foundation the roadway of Carroll St., from Rogers to Nostrand Aves., to CRANFORD CO., 52 Ninth St., Brooklyn, $4,130; roadway to Hale Ave., from Atlantic Ave. to Fulton St., to UVALDE ASPHALT CO., 1 Broadway; the roadway of Hawthorne St., from Rogers to Nostrand Aves., to CRANFORD CO., $3,730; the roadway of Montgomery St., from Rogers to Nostrand Aves., to CRANFORD CO., $4,-063; for regulating, grading, curbing and laying sidewalks on New Lots Road or avenue, from Snediker to Riverdale Aves., to NATIONAL CEMENT & CONSTRUCTION CO., 150 Nassau St., New York, $8,915; for regulating and repaving with asphalt pavement on a concrete foundation the roadway of Ralph Ave., from St. Marks Ave. to Lincoln Pl., to BROOKLYN ALCATRAZ ASPHALT CO., 407 Hamilton St., Brooklyn, $7,995; the roadway of Willoughby St., from Adams to Bridge Sts., to CRANFORD CO., $4,379; the roadway of Bedford Ave., from Dekalb Ave. to Quincy St., together with all work incidental thereto, to BROOKLYN ALCATRAZ ASPHALT CO., $20,042; the roadway of Elton St., from Fulton St. to Atlantic Ave., to UVALDE ASPHALT PAVING CO., $4,362; the roadway of Louis Pl., from Herkimer St. to Atlantic Ave., to BARBER ASPHALT PAVING CO., 30 Church St., New York, $2,643; for regulating and repaving with granite pavement on a concrete foundation the roadway of Flushing Ave., from Kent Ave. to Broadway, to LEO E. KELLY, $48,587; the roadway of Manhattan Ave., from Newtown Creek Bridge to Driggs Ave., together with all work incidental thereto, to O'GRADY BROS., 60 North Eighth St., Brooklyn, $59,460; the roadway of Franklin St., from Commercial to North 14th Sts., to PETER J. MINCK, $40,090; for regulating, grading, curbing and laying sidewalks on Montgomery St., from Rogers to Nostrand Aves., to CRANFORD CO., $2,448.

NEW YORK, N. Y.—Bids are asked by Robert W. Hebberd, Comr. Dept. of Public Charities, until 2.30, Dec. 21, for furnishing all the labor and material required for filling and grading at Coney Island Hospital site on Ocean Parkway, north of Coney Island Creek, Boro. of Brooklyn, the City of New York; for furnishing all the labor and material required for macadam roadways, brick gutters, cement walks, curbs, catch basins and drainage pipes at Coney Island Hospital site on Ocean Parkway, Boro. of Brooklyn, the City of New York.

GLOUCESTER CITY, N. J.—Bids will be received until 8 p. m., Dec. 16, at the office of John J. Mannion, City Clk., for paving King and other streets.

JOHNSTOWN, PA.—Bids are asked by Lee Masterton, City Engr., until 3 p. m., Dec. 21, for paving various streets in this city.

ASHEVILLE, N. C.—The Kenilworth Land Co. has awarded the contract for the construction of a boulevard 1½ miles long through the Forest Hill and Kenilworth properties, to B. J. LUTHER & CO., at about $10,000.

JACKSONVILLE, FLA.—Bids are asked until 9.30 a. m., Dec. 17, by F. J. Hyde, Chn. Bd. of Comrs. of Duval County, for grading, curbing and laying 2¼ miles of vitrified block or concrete pavement on the Beach Road. Gail L. Barnard is County Engr.

COLUMBUS, OHIO.—Bids will be received until Dec. 17 by the Board of Public Service for grading and paving with hard burned brick or block, Graham, Scioto, Marion and Stauring Sts. and Center Ave. and for macadamizing Hawthorne Ave. E. W. Hirsch is Secy.

ALLIANCE, OHIO.—The Board of Public Service has awarded to J. C. DEVINE the work of paving of West Market St., from Geiger to Lincoln Aves. The cost is $6,002, which was the lowest of the four bids received.

NEWBURG (Cleveland post-office), OHIO.—Bids will be received until Dec. 20 by E. T. Lawrence, Clk. Bd. Pub. Service, for furnishing material, grading, laying delinquent sidewalks and otherwise improving East 109th and East 123d Sts. The William H. Evers Engineering Co. is Engr., 332 The Arcade, Cleveland.

CINCINNATI, OHIO.—J. H. Sundmaker, City Engr., has submitted to the Board of Public Service a report on the estimated cost of paving with granite a portion of Colerain Ave., at $26,628.

TOLEDO, OHIO.—The Board of Public Service on Dec. 1 awarded the contract for paving a portion of Broadway with bitulithic to the CENTRAL BITULITHIC PAVING CO., for $68,268.

ST. CLAIRSVILLE, OHIO.—The Belmont County Commissioners at their meeting held Dec. 8, closed the matter of paving the Bellaire and Shadyside Pike, by letting the contract to W. J. BERRY, of Powhatan Point, Ohio, at his bid of $25,000. All the work that will be done this fall will be grading.

SOUTH BEND, IND.—Specifications have been approved by the Board of Public Works for paving Prairie Ave. with about 31,000 sq. yds. Estimated cost, $69,000. A. J. Hammond is City Engr.

ELKHART, IND.—The following bids were received Dec. 1 for paving 9,597 sq. yds. on Marion St.: Andrews Asphalt Paving Co., of Hamilton, Ohio, with Trinidad sheet asphalt, $24,126, and Cain Construction Co., of Gary, Ind., with Metropolitan blocks, $25,-391.

WINNETKA, ILL.—Bids are asked until 7.30 p. m., Dec. 21, by the Board of Local Improvements of the Village of Winnetka, Ill., for 5,000 sq. yds. of brick pavement, 37,290 sq. yds. asphaltic macadam pavement, 23,000 sq. yds. macadam (tarvia or its equal, top dressing), 41,000 lin. ft. combined curb and gutter, 36,540 cu. yds. grading, drains, catch basins, manholes, etc. Windes & Marsh, Winnetka, Ill., are Village Engrs.

BELLEVILLE, ILL.—The Board of Local Improvements is preparing plans and specifications for paving the lower ends of Illinois, High, Jackson, Church, Charles Sts. and Caseyville Ave.; probable cost, $60,000. Fred J. Deutschmann is Street Comr.

DANVILLE, ILL.—We are officially advised that bids were received by the Board of Local Improvements on Nov. 16 for grading, concreting, paving with vitrified paving brick with cement filler and asphalt expansion joints, placing of six inlets with sewer pipe connections to main sewer, and the resetting of curbing on Voorhees St. from the east line of Gilbert St. to the west line of Vermilion St. W. E. Winn is City Engr. The contract has been let to the INTERURBAN CONSTRUCTION CO., of Danville, at $1.52 per sq. yd.

RIVERSIDE, ILL.—We are officially advised that the Aetna Engineering Bureau, 125 LaSalle St., Chicago, Ill., has been retained to prepare plans, specifications and supervise construction of about $25,000 worth of paving, sewer and water improvements. This work will be done during the year 1910.

LAKE BLUFF, ILL.—JAMES CAPE & SONS, of Racine, Wis., have secured the contract for constructing macadam roads and placing catch basins at the Naval Training Academy, for about $58,000.

BELOIT, WIS.—The proposed 50,000 sq. yds. of paving contemplated will be of brick, macadam and creosoted block. Robert Caldwell is City Engr.

LEAVENWORTH, KAN.—THOMAS JONES & SON have secured the contract, at $7,973, for constructing roads, walks, gutters, etc., in vicinity of Signal Corps building now under construction.

INDEPENDENCE, MO.—The County Court has awarded the contract for macadamizing a portion of Arlington Ave. to J. J. RANDALL, it is stated.

AUSTIN, TEX.—Bids will be received about Dec. 22 for about 4,000 sq. yds. of brick pavement. Cost, about $8,600. G. S. Iredell is City Engr.

OKLAHOMA CITY, OKLA.—Bids are asked by Bob Parman, City Clerk, until 5 p. m., Dec. 20, for the paving, necessary grading and such other work as may be necessary, including oak curbing, of all the alleys in Block 62, Original Plat, and in the east 200 ft. of Block 3, Main St. Addition, be paved the total width of each alley. The materials to be used in paving the roadway of said alleys shall be vitrified brick, with a 5-in. Portland cement concrete foundation. W. C. Burke is City Engr.

SEATTLE, WASH.—The following bids were received on Dec. 3 by the Board of Public Works for paving Jackson St., etc.: Paul Steenstrup, Seattle, $94,140; Coast Concrete Co., Pacific Bldg., Seattle, Wash., $91,777; S. Normile, Seattle, $94,904; MACADAM & CO., Seattle, $86,067 (awarded contract).

KENT, WASH.—A contract will probably be let in the spring for vitrified brick paving to cost about $15,750. L. E. Price is City Clerk.

PORTLAND, ORE.—J. W. Morris, City Engr., has prepared plans and specifications for paving the following streets: Third St. with asphalt, $24,100; 18th St. with hard surface pavement, $16,518, and Fifth St. with bitulithic, $47,221.

MODESTO, CAL.—The WORSWICK PAVING CO. has been awarded the contract for paving I St., from Twelfth to 17th Sts., with asphalt macadam, at about $15,000. The company has been also awarded the contract for paving the alley between Ninth and Tenth Sts., from G to H Sts., the figures being as follows: Grading, 1.4 cts. per sq. ft.; paving, 12½ cts. per sq. ft.; redwood curbing, 17 cts. per lin. ft.

SAN DIEGO, CAL.—The city of San Diego has ordered the improvement of Third St., from B to J Sts., by paving, curbing and constructing cement gutters and sewers. F. A. Salons is Supt. of Streets.

SANTA PAULA, CAL.—The Board of Trade of Santa Paula is securing estimates on the probable cost of street improvements and sewer system.

SAN FRANCISCO, CAL.—The Harbor Board on Nov. 24 awarded the contract for paving streets near the mail dock to FLINN & TRACY, 1278 Market St., at $33,350.

COVINA, CAL.—Bids are asked until 8 p. m., Dec. 28, by A. M. Pence, City Clerk, Covina, for street improvements on First St., consisting of grading, crushed rock, screenings and mineral oil surface. F. G. Dessery, 1117 Union Trust Bldg., Los Angeles, Cal., is City Clerk.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

MANCHESTER, N. H.—We are officially advised that the Leighton Machine Co., manufacturers of underwear and sweater machinery, winders, etc., together with the Dodge Needle Co., are planning to erect a plant in East Manchester. It is probable that a building double the size of the one now occupied by them will be erected in the spring. Noted on Dec. 2.

GREENDALE (Worcester post-office), MASS.—John E. Bradley, of the Osgood Bradley Car Co., has awarded the contract to build three of the buildings which will compose the big plant at Greendale, to EDWARD J. CROSS, 82 Foster St., Worcester. Six of the seven buildings have now been contracted for, a contract to erect three of the buildings having been awarded to the McCLINTIC-MARSHALL CONSTRUCTION CO., Park Bldg., Pittsburg, Pa. E. J. Cross's contract called for the construction of an office building, a lumber shed and an improved dry kiln, at an approximate cost of $25,000. The office building is to be of wood, two stories, 80x40 ft. The lumber shed is to be 112×50 ft. and 20 ft. high. The dry kiln, 112 x 50 ft., will be of brick construction, reinforced with concrete, and will be fireproof. Mr. Bradley contemplates building a mechanical row which will be 222 ft. long and 50 ft. wide and which will contain a tin shop, an upholstery, a pipe shop and storehouses. The contract to construct the mechanical row has not been awarded. Construction of thre three buildings just awarded will begin as soon as possible.

NORTHAMPTON, MASS.—The McCullum Hosiery Co., Northampton, Mass., is organizing an additional company to engage in the manufacture of silk hosiery, which probably will be called the Northampton Silk Co. The McCullum Company will be conducted as a partnership concern, the preferred stock being called in for Jan. 1. The Northampton Silk Co. will issue $100,000 of 6% bonds, guaranteed by the McCullum Company, and $150,000 of common stock will be issued. The company expects to secure a site at once and will erect a plant to employ 250 to 300 hands.

LAWRENCE, MASS.—The Pacific Mills will build a mill on Canal St., which will occupy two blocks and employ nearly 2,000 operatives. The factory will be used for the manufacture of worsteds. Work of construction will be started in the spring.

LANCASTER, N. Y.—The Buffalo Tire & Motor Co., of Buffalo, intends erecting a plant here for the manufacture of power trucks and delivery wagons, it is stated.

BUFFALO, N. Y.—The Buffalo Union Furnace Co. is erecting an addition to the engine building at its plant, at the foot of Katherine St., in which it will install a low-pressure blower engine, utilizing exhaust steam from the high pressure engines serving Furnace C of the plant.

NEWARK, N. J.—According to plans recently completed by Kitchell & Bartlett, Archs., a factory, to cost $25,000, will be erected at Commerce St. and Railroad Ave. by Cyrus Currier & Sons, 365 Market St. The building will be five stories high, 76x62 ft. and will be used for the manufacture of special machinery.

JERSEY CITY, N. J.—We are officially advised that W. Ames & Co., 312 Washington St., Jersey City, N. J., have awarded to V. J. HEDDEN & SONS' CO., Metropolitan Life Tower, New York, the contract for the erection of the following buildings: Spike and bolt shop, brick and steel, one story, 60x280 ft.; mill building, steel, one story, 50x200 ft.; machine shop, frame, one story, 50x100 ft.; storage house, frame, one story, 50x100 ft.; office building, brick, two stories, 30x40 ft.; scrap shed and fence. These structures comprise part of the new plant to be erected for the company, manufacturing spikes, bolts and bar iron, on Communipaw Ave., Jersey City. Charles H. Higgins, Commercial Trust Building., Jersey City, is Consult. Engr.

PHILADELPHIA, PA.—John G. Brown has been commissioned to plan an additional 5-story and basement box factory, to be erected at 245-47 North Sixth St., for G. A. Bisler, Inc., at a cost of $40,000. It will be constructed of reinforced concrete, and will measure 36x100 ft.

The WILLIAM STEELE & SON CO., 1600 Arch St., has obtained a permit for a 5-story factory building, 82.6x285 ft., and a boiler and engine house at the northeast corner of Ontario and I Sts., for the Model Milk Co. The cost will be $101,000.

BRADFORD, PA.—The Pittsburg (Pa.) "Post" states that the Buffalo, Rochester & Pittsburg Ry. Co. has awarded a contract for building a timber preserving plant for treating all cross ties and other timber used on that system. A site has been selected near Bradford, Pa., and the plant will have a capacity of 250,000 ties a year. The general contract was awarded to the ALLIS-CHALMERS CO., of Milwaukee, Wis., and work will be started immediately, so the new plant will be ready for service early next spring. It is intended to creosote, using the full-cell process, all cross ties, switch ties, bridge timber, etc. The new plant will be of the same design as the tie-treating plant erected this year by the Pennsylvania R.R. on the main line east of Pittsburg. Other roads in the Pittsburg district have been considering a similar move for some time, and it is likely that contracts for additional plants will be awarded shortly after the first of the year. Engineers of the Buffalo, Rochester & Pittsburg are expected to begin work shortly on a new storage yard to be built in connection with the new tie-treating plant. It will be located along the main line and all timber will be stored at that point. As soon as the cross ties are treated they will be stored in the new yard until needed along the main and branch roads. The company has plans for large amount of new construction and the officials intend to treat all the ties at the new plant before they are placed in line. E F. Robinson, Rochester, N. Y., is Ch. Engr.

MANCHESTER, VA.—See item under Buildings.

WINSTON-SALEM, N. C.—The management of the Maline Mills has awarded contract to FOGLE BROS. for the erection of another building, 74x150 ft. The plans are being prepared by Willard Northrup. This structure is in addition to the 60x170-ft. building contracted for some weeks ago. The latter addition will be equipped with bleaching machinery, etc., for a daily capacity of 30,000 lbs. of knit goods.

LOWNDESVILLE, S. C.—James P. Gossett, Pres. of the Calhoun Mills, Calhoun Falls, S. C.; H. W. Kirby, of Lowndesville, S. C., and a number of others are planning the organization of a cotton factory company to build at Lowndesville. They contemplate a capitalization of $250,000, and expect to complete arrangements soon. A site has been selected and an option on it taken.

GREAT FALLS, S. C.—The Republic Cotton Mills Co., Great Falls, S. C., is having plans and specifications prepared for the construction and equipment of its plant. J. E. Sirrine, of Greenville, S. C., is Arch. The company has decided on a building 650x135 ft., the spinning department to be two stories and the weaving department one story. It will install an equipment of 25,600 spindles and 650 automatic looms for manufacturing print cloth, the daily output to be about 5,000 lbs. Five hundred operatives will be employed and 1,500 HP. will be consumed in operating the plant. The officers include: Pres., Robert S. Mebane, of the Bellemont Mills, Graham, N. C.; Vice-Pres., Thomas B. Fuller, Pres. of the Golden Belt Mfg. Co., Durham, N. C.; Secy.-Treas., Hal. B. Mebane, of Graham. The Republic company will provide a modern mill village, with water-works, lighting system, sewerage system, etc., in connection with the plant. Its capitalization is $600,000.

JACKSONVILLE, ALA.—George P. Ide and associates, of Jacksonville, Ala., will build a weaving mill. They will organize the Verlina Mills to own and operate the plant, which will be equipped with 200 looms for weaving the yarns produced by the Ide Cotton Mills, a plant which the organizers of the new company own. The Verlina Mills building will be of brick, 136x100 ft., and the contract for erecting it has been awarded to GUY AMOS, of Anniston, Ala. This new plant will cost about $100,000. The Ide yarn plan has 37,392 spindles driven by steam electric power and the Verlina plant will be practically an addition to it. George P. Ide, A. H. Robbins and H. R. Rice will compose the new company. Mr. Ide and Mr. Robbins are respectively Treas. and Supt. of the Ide plant. Noted on Dec. 2.

DAYTON, OHIO.—The New Era Gas Engine Co., intends to enlarge its plant for the manufacture of motorcycles.

CLEVELAND, OHIO.—The Mercantile Rubber Co. has obtained permits for the construction of two factory buildings. One structure is to cost $11,000 and the other $9,000. They will be erected on Lisbond Road, S. E.

COLUMBUS, OHIO.—Julian & Julian, Archs., have let the contract for the new Reynold's bakery to be built on Cleveland Ave., to H. E. BECKETT. The building will be two stories and basement, brick, 100 ft. square.

DETROIT, MICH.—The Pullman Car Co., of Chicago, Ill., intends erecting a plant here in the spring, it is stated.

CEDAR RAPIDS, IOWA.—It is intended to enlarge the plant of Douglas & Co., starch manufactuerrs.

AUSTIN, MINN.—The NELSON CONSTRUCTION CO., of Mason City, Iowa, has secured the contract to erect a plant here for the Southern Minnesota Brick & Tile Co., at about $175,000.

MEXICO, MO.—The Mexico, Santa Fe & Perry Traction Co. will erect car shops here. Contracts will be let soon. C. W. Gaither is Secy., Mexico.

McKINLEY, TEX.—The Lone Star Cotton Mill, McKinney, Tex., which has organized with a capital stock of $200,000, intends to open proposals for buildings and machinery about Jan. 1. The main building will be of brick with sprinkler system for fire protection and is to be equipped with 5,000 spindles for yarn manufacture to begin with. An equipment of electrical machinery will be placed to drive the mill machinery and light the plant. A producer gas plant is also to be used. J. Perry Burrus is Pres.

DENVER, COLO.—A packing plant is to be erected here by Raymond & Hoffman, 1547 Market St., at a cost of $75,000.

The Colburn Automobile Co., E. A. Colburn, Pres., will erect a plant near Overland Park for the manufacture of automobiles. Construction will begin after the first of the year.

LOS ANGELES, CAL.—Plans for the manufacture of interlocking cement roofings of all colors will be established in Los Angeles, San Francisco, Portland, Seattle, and Spokane by the Payne Cement & Tile Co., which has been incorporated in Los Angeles, Cal., with a capital of $150,000, by B. E. Payne and associates. The company will build a temporary plant on Benefit St., Los Angeles, and will establish a permanent factory later, on property adjoining the Los Angeles River.

SANTA ANA, CAL.—The stockholders of the Pacific Coast Soda Co., of Santa Ana., have decided to rebuild a plant to take the place of one destroyed by fire, at Soda Lake. Estimated cost, $20,000 to $25,000.

BAKERSFIELD, CAL.—Improvements, to cost $75,000, are to be made to the plant of the Union Ice Co., of this city. New boilers and refrigerating machinery will be installed.

SAN FRANCISCO, CAL.—The San Francisco "Call" states that the buildings planned by the Southern Pacific Co. at Visalia, foundations for which have been laid, are as follows: Machine and erecting shop, 135 × 450 ft., equipped with 150-ton and 15-ton traveling cranes; round-house, 40 stalls, 420 ft. in diameter, transfer table, 70 x 495 ft.; planning mill and coach repair shop, 185 x 335 ft.; freight car repair sheds, 115 x 440 ft., equipped with 15-ton traveling crane; carpenter and blacksmith shop, 56 x 380 ft.; paint storage building, 75 x 195 ft.; storehouse, 55 x 100 ft.; administration building and sundry other buildings necessary for railway use; power-house, 60 x 90 ft. William Hood is Ch. Engr.

SALT LAKE CITY, UTAH.—The American Linen Supply Co., Salt Lake City, will erect, at once, a 2-story reinforced concrete laundry building, at 33 East Sixth St. It will cost $40,000.

MISCELLANEOUS CONTRACTS.

(*denotes that this work is advertised in *Engineering News*.)

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

MARINE RAILWAY.—Key West, Fla.—See item under Railways: "Florida."

DITCHES.—Lima, Ohio.—Bids will be received until Dec. 18 by J. F. Cupp, County Surv., for constructing twelve miles of ditches.

WATER TOWER.—New York N. Y.—Bids will be received by the Fire Department until 10.30 a. m., Dec. 21, for furnishing and delivering one 65-ft. water tower.

FIRE HOSE.—Modesto, Cal.—The Board of Trustees has awarded contract to the GORHAM RUBBER CO., Los Angeles, for 1,000 ft. of special fire hose at 80 cts. a ft.

DRAIN.—Sac City, Iowa.—Bids will be received by Harry Baxter, County Audr., until noon, Dec. 23, for construction of a drain in Drainage Dist. No. 29, Sac Township.

DITCH.—Fremont, Neb.—Bids are asked by the Board of County Supervisors until 10 a. m., Dec. 17, for constructing an extension to North Bend Ditch No. 2. Jas. A. Donahue, County Clerk.

CABLE.—New York, N. Y.—Bids will be received by the Fire Department until 10.30 a. m., Dec. 28, for furnishing and delivering 21,000 ft. of underground lead covered cable for fire alarm telegraph.

LEVEE.—Memphis, Tenn.—Bids are asked by the Mississippi River Commission, Maj. M. L. Walker, U. S. Engrs., Memphis, until noon, Dec. 22, for levee work in the Lower St. Francis levee district.

WHARF.—Long Beach, Cal.—The Board of Public Works has awarded the contract to build the municipal wharf to the MERCEREAU CONSTRUCTION CO., of Los Angeles, Ca., whose bid was $25,980.

MANUAL TRANSMITTER.—New York, N. Y.—Bids will be received by the Fire Department until 10.30 a. m., Dec. 28, for furnishing and delivering a manual transmitter for the Fire Alarm Telegraph Bureau, Boro. of Manhattan.

DRAINAGE.—Valley, Wash.—The contract for draining the Colville River to Addy has been let to FOLEY & GLEASON, Spokane, Wash., at 11 cts. per cu. yd. The work, which will be completed in July, is estimated to cost $47,000.

WHARVES.—Victoria, B. C.—The Grand Trunk Pacific Railway Co. is calling for bids for the construction of large wharves at Victoria, to cost $100,000. Work will be started immediately. B. B. Kelliher, Ch. Engr., Winipeg, Man.

DREDGING.—St. Paul, Minn.—Bids were received on Dec. 9 by the Board of County Commissioners, St. Paul, for dredging and improving Silver Lake, North St. Paul. Lowest bidder was J. E. Ramaley, White Bear, Minn., at $3,573.

STEAMER.—Norfolk, Va.—The NEWPORT NEWS SHIPBUILDING & DRY DOCK CO., Newport News, Va., has secured a contract for the building of a new freight and passenger steamer for the Old Dominion Steamship Co. at a cost of $500,000.

BULKHEAD.—New York, N. Y.—Bids will be received by the Department of Docks and Ferries until noon, Dec. 28, on Contract No. 1204, for furnishing all the labor and materials required for furnishing and delivering granite stone for bulkhead or river wall.

SCALE.—Augusta, Me.—Bids will be received by J. A. Holmes, Pur. Agent, Post Office Dept., Washington, D. C., until Dec. 20, for furnishing and delivering complete at the post office at Augusta, Me., one 40,000-lb. Dormant scale, platform 60 × 75 ins.

RECONSTRUCTING FERRYBOAT.—New York, N. Y.—Bids will be received until noon, Dec. 29 by the Department of Docks and Ferries on Contract No. 1121: For furnishing all the labor and materials required for reconstructing the municipal ferryboat "Castleton."

*DITCH.—Defiance, Ohio.—Bids were to be received on Dec. 8 by the Commissioners for Gordon Creek Joint County Ditch Improvement No. 398, for 335,569 cu. yds. of excavation. Estimated cost, $50,395. Sale was stopped by an injunction before bids were opened.

LEVEE.—New Orleans, La.—The Orleans Levee Board received bids on Nov. 27 for the completion of the new Basin Canal levee and awarded the contract to HAMPTON REYNOLDS, of 4230 Chestnut St., New Orleans, at 74 cts. per cu. yd. Total cost, $25,530.

CONCRETE MIXER.—Detroit, Mich.—Bids will be received by the Board of County Commissioners, Detroit, until 2 p. m., Dec. 17, for furnishing f. o. b. Detroit, Mich., one concrete mixer, with the privilege to the Board of purchasing two or more at the same or a less price each.

STEAM LIGHTER.—New York, N. Y.—Bids are asked until noon, Dec. 21, by the Department of Docks and Ferries on Contract No. 1172, for furnishing all the labor and materials required for preparing for and building a steel steam lighter with all appurtenances.

DRAINAGE.—New York, N. Y.—Bids will be received by the Department of Health until 10 a. m., Dec. 22, for furnishing all the necessary labor, implements and materials required to drain approximately 81 acres of salt meadow land in the vicinity of Jamaica, Boro. of Queens, City of New York.

DRAIN.—Clarion, Iowa.—Bids were received on Dec. 6 by the Board County Commissioners for constructing Drain No. 40, Blaine Township, requiring 12,800 ft. 24, 22, 18 and 16-in. tile, 1,800 ft. open ditch. Contract was awarded to E. F. BAILEY, Belmond, Iowa, at $12,985. E. M. Callender, County Audr.

DITCH.—Blue Earth, Minn.—Bids were received by J. L. Herring, County Audr., on Dec. 6 for constructing County Ditch No. 7, requiring about 15,218 yds. excavation and 18,737 ft. of 7 to 15-in. tile. Estimated cost, $16,000. Contract for awarded to the INTERSTATE DRAINAGE & INVESTMENT CO., Britt, Iowa, at $15,015.

FIRE ENGINE, HOSE WAGON.—New York, N. Y.—Bids will be received by the Fire Department until 10.30 a. m., Dec. 21, for furnishing all the labor and materials required for building first size steam fire engine, registered number 290 (La France type); also for furnishing and delivering one automobile hose wagon.

DREDGING.—New York, N. Y.—Bids were received by Bird S. Coler, Pres. Boro. of Brooklyn, on Nov. 24 for dredging about 400 ft. northerly. Estimated quantity, 6,000 cu. yds. scow measurement. The lowest bidder was the U. S. Dredging & Construction Co., 260 Washington St., Jersey City, at 30 cts. per cu. yd.

REPAIRING FERRYBOATS.—New York, N. Y.—Bids will be received by the Department of Docks and Ferries until noon, Dec. 20, on Contract No. 1210, for furnishing all the labor and materials required for repairing the municipal ferryboats or other floating ferry property, and furnishing and delivering supplies therefor.

(Continued on page 215.)

CONTRACT PRICES.

BARGE CANAL.—Albany, N. Y.—The itemised bids received by F. C. Stevens, Supt. Public Works, on Dec. 1, for Contract No. 54 for constructing Lock No. 7 at Fort Edward; Contract No. 60, for constructing in the Hudson River Lock No. 2 below Mechanicville, together with all appertaining construction; Contract No. 72, for dredging a channel in the Hudson River and performing work incident thereto from Lock No. 2 to Lock No. 4, a distance of 4.1 miles; and Contract No. 72, for completing the construction of the canal from the Mohawk River at Waterford to a point about one-fourth of a mile above the head of Lock No. 3, were as follows: The totals of the bids and prices of Contract No. 36 (for 16 inches for movable dams) were given last week.

Contract No. 54—(A) Engineer's estimate; (B) SCOTT BROS., Baldwinsville, N. Y., who were the only bidders. (Awarded contract.)

		(A)	(B)
45,600	cu. yds. excavation	$0.30	$0.36
2	M. ft. B. M. sheeting and bracing, per M. ft	50.00	50.00
11,300	cu. yds. forming embankment	.15	.18
1.1	M. ft. B. M. sawed lumber (yellow pine or Douglas fir), per M. ft.	50.00	55.00
16	M. ft. B. M. sawed lumber in needles, per M. ft.	100.00	100.00
6.8	M. ft. B. M. white oak lumber in miter sills, lock gates and buffer blocks, per M. ft.	100.00	120.00
60,600	lin. ft. foundation piles, 16 to 30 ft. long	.25	.25
130	lin. ft. mooring piles, 20 ft. long	.30	.32
225	M. ft. B. M. wooden sheet piling, per M. ft.	50.00	50.00
21,700	cu. yds. second-class concrete	6.00	6.40
600	cu. yds. wash wall	2.50	2.50
240	cu. yds. second-class rip-rap	2.75	2.75
3,660	cu. yds. third-class rip-rap	2.50	2.50
7,200	lbs. structural steel	.045	.05
376,000	lbs. metal reinforcement	.035	.0375
9,800	lbs. steel castings	.045	.05
7,300	lbs. iron castings, machined	.08	.08
250	lin. ft. wrought iron pipe, 3 ft. diam.	.40	.40
480	lin. ft. wrought iron pipe railing	1.00	1.10
200,000	lbs. metal in lock gates	.05	.055
92,000	lbs. metal in buffer beams	.055	.06
25,000	lbs. metal in lock valves	.08	.09
	Coffer-dams, pumping, bailing and draining (lump sum)	15,000.00	18,000.00
	Totals	$232,908	$250,590

Contract No. 69—(A) Engineer's estimate; (B) I. A. HODGE & CO., INC., Syracuse, N. Y. (awarded contract); (C) Parker & Beebe, Waterford, N. Y.; (D) Coast & Interior Contracting Co., Fayetteville, N. Y.; (E) Arthur McMullen, 149 Broadway, New York; (F) Morris Kantrowitz, Albany, N. Y.; (G) Scott Bros., Baldwinsville, N. Y.:

		(A)	(B)	(C)
	Clearing, lump sum	$400.00	$400.00	$400.00
953,000	cu. yds. excavation	1.50	1.24	2.05
2	M. ft. B. M. sheeting and bracing, per M. ft.	50.00	55.00	50.00
400	lin. ft. round timber bracing	.20	.24	.20
2,400	cu. yds. stone filling in cribs	2.25	2.70	2.25
1,000	cu. yds. rock spoil filling	.60	.70	.60
9,000	lbs. structural steel	.05	.06	.05
5,800	lbs. iron castings, plain	.035	.04	.035
	Totals	$1,439,733	$1,192,758	$1,964,983

Contract No. 2E—(A) Engineer's estimate; (B) HOLLER & SHEPARD, Ellwanger & Barry Bldg., Rochester, N. Y. (awarded contract); (C) Ferguson Contracting Co., 37 Wall St., New York; (D) Scott Bros., Baldwinsville, N. Y.:

		(A)	(B)	(C)	(D)
139,500	cu. yds. all excavation	$0.52	$0.54	$0.50	$0.56
26.4	M. ft. B. M. sheeting and bracing (spruce), per M. ft.	40.00	40.00	48.00	45.00
68,200	cu. yds. forming embankment	.15	.15	.12	.15
720	cu. yds. lining	1.50	1.50	1.50	1.50
148.5	M. ft. B. M. timber and plank (yellow pine), per M. ft.	40.00	40.00	40.00	48.00
8	M. ft. B. M. spruce timber and plank, per M. ft.	35.00	35.00	35.00	40.00
51,300	lin. ft. round timber in cribs	.12	.14	.14	.14
2,050	foundation piles, 15-ft. long, each	3.75	3.75	3.25	3.75
35	mooring piles, 20-ft. long, each	6.50	6.50	6.50	6.75
21,350	cu. yds, second-class concrete	6.50	6.25	7.00	6.90
1,200	vu. yds. wash wall, including coping	2.00	2.00	2.00	2.00
5,540	cu. yds. stone filling	2.00	2.00	1.50	2.25
170	lin. ft. 12-in. vitrified pipe, laid	.60	.60	.60	.60
170	lin. ft. trenching and backfilling for 12-in. vitrified pipe	.20	.20	.20	.20
12,200	lbs. iron castings	.04	.04	.04	.04
29,300	lbs. structural steel	.06	.06	.06	.06
3	M. ft. B. M. white oak lumber in miter sills, per M. ft.	100.00	100.00	100.00	120.00
70	sq. yds. cobblestone gutters	1.00	1.00	1.00	1.00
1,270	sq. ft. relaying old flagging	.06	.06	.06	.06
460	fender fastenings, each	3.75	3.75	3.75	3.75
50	sq. yds. brick sidewalks	1.35	1.35	1.35	1.35
50	lin. ft. stone curbs	1.50	1.50	1.50	1.50
160	lin. ft. stone curbs, reset	.50	.50	.50	.50
70	sq. yds. cobblestone gutters, relaid	.50	.50	.50	.50
40	sq. yds. crosswalks, relaid	.54	.54	.54	.54
	Change in hydrant and connections, lump sum	45.00	45.00	45.00	45.00
	Change in steps and stoops, lump sum	100.00	100.00	100.00	100.00
260	cu. ft. removing concrete	1.00	1.00	1.00	1.00
130	sq. ft. dressing concrete surface	.75	.75	.75	.75
3,660	lbs. cast iron quoin plates	.11	.11	.11	.12
	Totals	$263,189	$261,668	$266,471	$280,101

Contract No. 72—(A) Engineer's estimate; (B) SHANLEY-MORRISSEY, INC., 527 Fifth Ave., New York (awarded contract); (C) P. Sanford Ross, Inc., 277 Washington St., Jersey City, N. J.:

		(A)	(B)	(C)	(D)	(E)	(F)	(G)
	Clearing, lump sum	$25.00	$25.00	$25.00	$25.00	$25.00	$25.00	$25.00
78,000	cu. yds. excavation	1.10	.85	1.10	.90	1.10	1.32	.88
5	M. ft. B. M. sheeting and bracing, per M. ft.	55.00	55.00	55.00	55.00	55.00	60.00	55.00
500	lin. ft. round timber bracing	.20	.20	.20	.20	.20	.20	.20
100	cu. yds. forming embankment	.15	.18	.15	.15	.15	.18	.15
6	M. ft. B. M. sawed lumber (yellow pine or Douglas fir) per M. ft.	55.00	60.00	55.00	55.00	55.00	60.00	55.00
9	M. ft. B. M. white oak lumber in miter sills and lock gates, per M. ft.	100.00	100.00	100.00	100.00	100.00	120.00	120.00
19,400	cu. yds. second-class concrete	7.00	6.25	7.00	6.25	7.00	6.90	6.50
261	cu. yds. second-class reinforced concrete	12.00	12.00	12.00	12.00	12.00	14.00	12.00
2	cu. yds. first-class masonry coping	30.00	30.00	30.00	30.00	30.00	35.00	30.00
200	sq. yds. third-class stone paving	1.75	2.00	1.75	2.00	1.75	2.00	1.75
100	cu. yds. thidr-class rip-rap	3.00	3.50	3.00	3.00	3.00	3.50	3.00
100	cu. yds. fourth-class rip-rap	3.00	3.50	3.00	3.00	3.00	3.50	3.00
181,400	lbs. Structural Steel	.045	.05	.045	.05	.05	.05	.05
26,000	lbs. metal reinforcement	.035	.035	.035	.04	.04	.04	.0375
7,600	lbs. iron castings, plain	.035	.04	.035	.05	.05	.04	.0375
8,600	lbs. iron castings, machined	.05	.055	.05	.05	.05	.06	.06
260,000	lbs. metal in lock gates	.05	.055	.05	.055	.05	.06	.055
77,000	lbs. metal in buffer beams	.055	.06	.055	.06	.06	.06	.06
34,000	lbs. metal in lock valves	.08	.085	.08	.085	.05	.09	.09
440	sq. yds. wood pavement, 2¾ in. thick	2.75	3.00	2.75	2.75	2.75	3.00	2.75
340	lin. ft. wooden fence	.20	.20	.20	.20	.20	.24	.20
310	lin. ft. drilling bolt holes in rock	.60	.60	.60	.60	.60	.70	.60
	Coffer-dams, pumping, bailing and draining, lump sum	11,000.00	11,000.00	10,325.00	11,000.00	1,000.00	11,000.00	7,500.00
1	Office building, lump sum	250.00	250.00	250.00	250.00	250.00	300.00	275.00
1	Storehouse, lump sum	850.00	850.00	850.00	850.00	850.00	900.00	850.00
	Totals	$270,675	$340,081	$270,000	$269,697	$249,989	$291,586	$242,634

MISCELLANEOUS CONTRACTS.

(Continued from page 214.)

FIRE ALARM APPARATUS.—Springfield, Mass.—The Board of Fire Commissioners has awarded to the GAMEWELL FIRE ALARM TELEGRAPH CO., of Boston, the contract for manufacturing and installing the new fire alarm telegraph apparatus which is to be located in the new fire headquarters station on Dwight St., at $30,000.

LEVEE.—Charleston, Mo.—Bids were not received on Nov. 27 by N. B. Kavenaugh, Secy., Levee Board at Charleston, for constructing eight miles of levee in Scott County, owing to legal technicality. New bids will be received until noon, Dec. 31. Excellent winter work; about 175,000 cu. yds. A. J. Wheeler, Engr., Charleston.

PARK.—New York, N. Y.—Bids were received as follows on Dec. 2 by the Department of Parks, for constructing the southerly portion of Colonial Park, Boro. of Manhattan: COOPER & EVANS, 220 Broadway, $83,086 (awarded contract); John B. Meletesta, $85,425; Chas. L. Doran, $101,545; Barber Asphalt Paving Co., $104,621.

BULKHEAD.—New York, N. Y.—Bids will be received by the Department of Docks and Ferries until noon, Dec. 21, on Contract No. 1027, for furnishing all the labor and materials required for preparing for and building a bulkhead wall, with appurtenances, at Whale Creek, Boro. of Brooklyn, and for furnishing and depositing riprap thereat.

DREDGING.—New York, N. Y.—Bids were received by Bird S. Coler, Pres., Boro. of Brooklyn, on Nov. 24, for dredging Gowanus Canal, from the head to Station 14, about 12,000 cu. yds., scow measurement. The lowest bidder, the U. S. DREDGING & CONSTRUCTION CO., 260 Washington St., Jersey City, was awarded the contract at 40 cts. per cu. yd. ($5,040).

TUNNEL.—Wallula, Wash.—T. F. Carter, Constructing Engr., is engaged in drawing plans for cementing the 2,300-ft. tunnel of the Columbia canal located east of Wallula. R. A. Given, Mgr., is in Spokane arranging with contractors to bid on the work. Tunnel will be 5 ft. 8 ins. in height and 5 ft. 4 ins. in width. The bottom is to be of solid cement.

LEVEE WORK.—Memphis, Tenn.—Bids were received on Nov. 30 by Mississippi River Commission, First and Second Districts, for about 35,000 cu. yds. of levee work in Rollfoot levee district. Maj. M. L. Walker, Corps Engrs., U. S. A. Bid of W. L. Mosby, Memphis, at 24.75 cts. per cu. yd. (two acres of grubbing at $150 per acre) was recommended for acceptance.

PIER EXTENSIONS.—New York, N. Y.—Bids are asked until noon, Dec. 28, by the Department of Docks and Ferries on Contract No. 1189, for furnishing all the labor and materials required for removing and repairing the existing pier and extending the pier at the foot of Morton St., North River, Boro. of Manhattan, known as Pier No. 42, North River, and for furnishing and depositing riprap thereat.

DREDGING PLANT.—Philadelphia, Pa.—A complete modern dredging plant is provided for the city by an ordinance approved by the Finance Committee of Councils last week. Authorization is given to the Department of Wharves, Docks and Ferries to expend $240,000 of the money now available for harbor improvement, for the purchase of a dredging outfit and to expend not more than $60,000 a year for its maintenance.

DREDGING.—Charleston, S. C.—Bids were received as follows by the Bureau of Yards and Docks, Washington, D. C., for dredging at the Charleston Navy Yard: On item 1, Savannah Dredging Co., Savannah, Ga., 25 cts.; Coastwise Dredging Co., Norfolk, Va., 16.9 cts. On item 2, P. Sanford Ross, Jersey City, N. J., 21.5 cts.; R. G. Ross, Jacksonville, Fla., 23.75 cts. No bids were received on Nov. 20 for this contract, which was readvertised.

SCALE.—Lafayette, Ind.—Bids will be received until 2 p. m., Dec. 20, by the Post Office Department, Washington, D. C., for furnishing and delivering, within the doors of the postmaster, Lafayette, Ind., one Dormant warehouse scale with tail iron pillar outfit and double beam, with special board capacity 25,000 × ½ lbs., platform 46 × 87 ins., platform to piller 12 ins.; price to include cost of foundations and installations. J. A. Holmes, Purchasing Agent.

WHARF, JETTY.—Florence, Ore.—Bids for furnishing materials and constructing receiving wharf and jetty at the entrance to Siuslaw River, Oregon, will be received at the office of the Port of Siuslaw (Florence), until 11 a. m., Dec. 18. Amount of money to be expended, $100,000. Plans and specifications may be seen in the U. S. Engineer office at Portland, Ore.; and also at 665 Monadnock Bldg., at San Francisco, Cal.; or at the Port of Siuslaw. E. P. Waite, Secy., Florence.

ORDNANCE.—Washington, D. C.—Bids were received as follows on Dec. 13 by the Chief of Ordnance, War Department, Washington, for the furnishing of (a) 500 10-in. c.-l. shell, Model of 1907, and 200 12-in. (b) of the same model: The Tredegar Co., Richmond, Va., (a) $26, (b) $33; Bromell, Schmidt & Steacy Co., York, Pa., (a) $32.02, (b) $44.79; Midvale Steel Co., Philadelphia, (a) $38, (b) $46; Bethlehem Steel Co., South Bethlehem, Pa., (a) $41.86, (b) $64.32; Standard Foundry Co., Buffalo, N. Y., (a) $41.02, (b) $55.37.

SEAWALL REPAIRS.—New York, N. Y.—Bids were received on Dec. 2, by the Department of Parks for repairing seawall along the waterfront of Battery Park, Boro. Manhattan. Bids were as follows: ALAMO CONSTRUCTION CO., 215 West 125th St., $11,460 (awarded contract); D. Bonacci, $21,-200; Joseph De Benedetto, $12,643; Phoenix Construction Co., 13 Park Row, $22,695; Thomas H. Hart, $12,867; Benjamin J. Tuttle, $15,596; Atlanta Contracting Co., $13,800; Haggerty Contracting Co., 13 Park Row, $13,013; Ralph Brown, $12,005.

REVETMENT, ETC.—Memphis, Tenn.—Bids are asked until 10 a. m., Dec. 20, for construction of bank protection work in the vicinity of Cummins, Ark., to consist of approximately 2,000 lin. ft. continuous revetment and also three bank dikes in bend above revetment, approximately 500 ft. apart. The revetment to be fully up to standard type as used by the U. S. Government on this river, or of the type under the patent of David Neale. The bank to be graded to a slope not less than 2½-to-1, and be covered either with riprap or reinforced concrete. The dike to be constructed after the manner as patented by David Neale. Also bids will be received from contractors furnishing their own plans. Gus Waterman, Chn. Levee Board.

PIER.—Philadelphia, Pa.—Bids were received on Dec. 10 by Jos. F. Hasskarl, Acting Dir., Dept. Wharves, Docks and Ferries, for constructing substructure of Vine St. pier No. 19, North, Delaware River. Bids were as follows: W. S. P. Shields, $294,000 for the entire work, exclusive of gravel filling and riprap around piles. His bid for gravel filling, approximating 15,000 cu. yds., was 76 cts. per cu. yd. and $2.25 per cu. yd. for 5,000 cu. yds of riprap. Filbert Paving & Construction Co., Philadelphia, $291,000; gravel filling, 60 cts.; riprap, $1.75. This company also put in an alternate bid of $303,000 covering the entire operation. Snare & Trieste Company, of New York, $290,000; gravel filling, 80 cts.; riprap, 80 cts. Hennebique Construction Co., Philadelphia, $363,-000, covering entire work. Edward F. Fonder, Land Title Bldg., Philadelphia, $250,-595; gravel filling, 65 cts.; riprap, $2.20.

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For other Proposal Advertisement see pages 51, 52, 53, 54, 56, of Advertisements and Construction News page 216.

CONCRETE CONDUIT.

Lincoln, Neb.

Notice is hereby given that sealed bids will be received at the office of the Sanitary Board, Room 54, Brownell Block, City of Lincoln, up to 10.00 a. m., Monday, December 27, 1909, for the construction of a reinforced concrete conduit for Antelope Creek, from the rear of lot three (3), block four (4), Field & Harrison's Addition to the City of Lincoln, to a point on the north side of the alley at the rear of lot ten (10) block twenty-four (24), Kinney's O Street Addition to the City of Lincoln, according to the plans and specifications on file in the office of the City Engineer of the City of Lincoln and at the office of the Sanitary Board. Each bid must be accompanied by a certified check of one thousand ($1,000) dollars. Blanks on which proposals may be written can be obtained at the office of the City Engineer or of the Sanitary Board.

The Engineer's estimate of the cost of the city's part of said work is twelve thousand ($12,000) dollars.

Proposals must include the following details:

1. Price for work across N and O streets —being the City's part.

2. Price for all work except that across N and O streets, to be done by Sanitary Board.

3. Total price of entire construction complete.

W. J. BLYSTONE,
S. B. HOHMANN,
KENT D. CUNNINGHAM,
Sanitary Board.

City of Lincoln.
DON L. LOVE, Mayor.
Attest: R. C. OZMAN, City Clerk.

SEWAGE DISPOSAL PLANT.

Gloversville, N. Y.

Sealed proposals for the construction of a sewage disposal plant at Gloversville, N. Y., will be received at the office of the City Engineer, City Hall, Gloversville, N. Y., until 12 o'clock noon, December 21, 1909.

An approximate estimate of the quantities of work and materials required is as follows: Earth excavation, 65,000 cubic yards; rock excavation, 500 cubic yards; plain and reinforced concrete, 3,500 cubic yards; steel for reinforing concrete, 300,-000 lbs.; floor drainage system, 13,000 square yards; coarse broken stone, 24,500 cubic yards; filter sand, 22,000 cubic yards.

Plans and specifications may be seen at the office of the City Engineer and at the office of Harrison P. Eddy, Consulting Engineer, 14 Beacon Street, Boston, Mass.

Sealed bids should be endorsed "Proposal for Construction of Sewage Disposal Plant," and addressed to the City Engineer, Gloversville, N. Y. Each bid must be accompanied by a certified check for ten thousand dollars ($10,000), but should not be enclosed with the proposal.

MORRELL VROOMAN,
City Engineer.

POWER STATION AND FILTER EXTENSIONS.

Wilmington, N. C.

Sealed proposals will be received for material and labor in connection with the above work by the Water and Sewerage Commission of Wilmington, N. C., until twelve (12) o'clock noon, of Wednesday, January 12th, 1910, when they will be opened and publicly read.

The improvements contemplated consist of the construction complete of a brick power and filter house, the construction of machinery foundations, rearrangement of machinery, the building of a radial brick stack, extensions to the filter plant, the building of a reinforced concrete sedimentation basin, and a concrete storage reservoir.

Specifications and plans will be ready for distribution on or before January 2d, 1910. A complete set of prints may be procured by prospective bidders by addressing direct the Southern Map Co.,

Southern Building, Wilmington, N. C., at a net cost of five dollars ($5.00) delivered.

Each proposal must be accompanied by a certified check in the sum of five (5) per cent. of the amount bid as evidence of good faith upon the part of the bidder.

The Commission reserves the right to reject any and all bids, or waiving formalities, to accept any which may seem to it to be to the best interest of the City of Wilmington.

WATER AND SEWERAGE COMMISSION,
Charles W. Worth, Chairman,
Wilmington, N. C.
HAZLEHURST AND ANDERSON,
Consulting Engineers
Atlanta, Ga. Wilmington, N. C.

SEWAGE DISPOSAL SYSTEM.

Sea Girt, N. J.

Sealed proposals will be received at the office of Quartermaster-General, State Capitol, Trenton, New Jersey, and at no other place, until 12.00 o'clock noon, Tuesday, December 28, 1909, and there publicly opened, for all necessary work and material in connection with the installation of a sewage disposal system at the State Camp Grounds, Sea Girt, New Jersey, to conform to plans and specifications open for inspection at the above named office, and at the superintendent's office on the camp grounds, Sea Girt, until the above mentioned date.

Under the State Law on this subject, certified check for ten per centum of amount of bid will accompany each proposal, and successful bidder will, upon execution of contract, furnish to the State of New Jersey bond in double amount of contract, with satisfactory security, conditioned for its faithful performance.

This department reserves the right to reject any bid not deemed to the best interest of the State.

E. EDWARD MURRAY,
Quartermaster-General.

BRIDGE.

Cohoes, N. Y., Dec. 8, 1909.

Sealed proposals will be received by the Board of Aldermen of the City of Cohoes, N. Y., until eight o'clock p. m., on Jan. 4, 1910, for furnishing materials and erecting a 30-foot span, rolled I-beam bridge with concrete floor. Roadway 14 feet and 3-foot sidewalk, with the necessary sub-structure. In accordance with the plans and specifications on file in the office of the City Clerk.

Each proposal must be accompanied by a certified check for $100, that the party bidding will enter into contract if the same to be awarded to him or them.

The City reserves the right to reject any and all bids.

WILLIAM J. ELLIOT,
City Clerk.

PAVING.

OFFICE OF THE BOARD OF PUBLIC WORKS.

Salt Lake City, Utah, Nov. 26, 1909.

Sealed proposals will be received at this office until 8 o'clock p. m., Friday, December 24th, 1909, for the work of grading, curbing and paving Ninth East Street, from South Temple Street to the City Limits.

Paving Extension No. 60, according to plans in the City Engineer's office.

Instructions to bidders, together with plans, profile, specifications, and forms for contract and bond, may be obtained upon application at the office of the Board of Public Works or the City Engineer.

The right is reserved to reject any and all bids.

By order of the Board of Public Works.
H. G. McMILLAN,
Chairman

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., December 9, 1909.—Sealed proposals will be received at this office until 3 o'clock p. m. on the 17th day of January, 1910, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. Post Office at Henderson, North Carolina, in accordance with drawings and specification, copies of which may be obtained from the Custodian of site at Henderson, N. C., or at this office at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

STEEL SUPERSTRUCTURE.

Winnipeg, Man.

Sealed tenders addressed to the Chairman, Board of Control, will be received at the office of the undersigned up to 11 a. m., Tuesday, January 18th, 1910, for removing the present superstructure and furnishing and erecting new superstructure and floor complete for Louise Bridge across the Red River. Plans, specifications, and forms of tender, together with conditions governing tenders, as prescribed by by-law, may be obtained at the office of the City Engineer, Winnipeg. The lowest or any tender not necessarily accepted.

M. PETERSON,
Secretary.

Board of Control Office,
Winnipeg, Canada, Dec. 8th, 1909.

ARTESIAN WELL DEVELOPMENT.

Jackson, Miss.

Sealed bids will be received by the Water Commission of Jackson, Miss., until 3 p. m., January 22d, 1910, for boring the necessary artesian wells and furnishing machinery for pumping same to provide a supply of not less than four million gallons per day of 24 hours for the use of City Water Works. Bond must be given to guarantee results. General specifications can be had on application to

HAMILTON JOHNSON,
General Manager, Jackson Water Works,
Jackson, Miss.

FORT MONROE, VA., December 6, 1909.—Sealed proposals, in triplicate, will be received until 10.00 A. M., January 10, 1910, for the construction, including plumbing, heating, electric wiring and fixtures, of an Engineer's Storehouse at Fort Monroe, Va. Plans and specifications may be seen in the Office of the Chief Quartermaster, Department of the East, Governor's Island, New York. Deposit of certified check for $25.00 required as guaranty return plans and specifications. Bidders on proposals must state name of manufacturers supplying them material. Information on application. The United States reserves the right to accept or reject any or all proposals or any part thereof ERNEST R. TILTON, Capt. and Q. M., U. S. A., Constg. Q. M.

CONSTRUCTION.—Fort Hancock, N. J., December 16, 1909.—Sealed proposals for construction, plumbing, heating, electric wiring and fixtures of 1 double set N. C. O. quarters (stucco), 1 double set Firemen's quarters (brick), 1 fire station (brick), and construction of second story (brick), to Quartermaster's storehouse at Fort Hancock, N. J., will be received here until 12 m., January 15, 1910, and then opened. Information furnished on application. Plans of the buildings can be seen at the Office of Chief Quartermaster, Dept. of the East, Governor's Island, N. Y. City, or at this office. U. S. reserves right to reject any or all proposals. Envelopes containing proposals should be indorsed "Proposals for Construction," addressed C. J. GOODIER, Constructing Quartermaster.

PROPOSALS FOR STEEL DRY DOCK.—Mississippi River Commission, Third District, Vicksburg, Miss., Nov. 26, 1909. Sealed proposals for the construction and delivery of a steel floating dry dock will be received at this office until noon, Jan. 5, 1910, and then publicly opened. Information furnished on application. CLARKE S. SMITH, Capt., Engrs.

Situations Wanted

Mechanical and Electrical Engineers.

POSITION WANTED by M. E. technical graduate, 6 years' experience. Address "W. A. 25," Engineering News, New York. 25-4t

MECHANICAL ENGINEER, 20 years' experience in high-class general engineering work, desires position; pumping machinery, compressed air work, power plants, industrial work, estimates, specifications; able to take charge of both engineering and commercial work. Address "D. B. 20," Engineering News, New York. 25-1t

POSITION in New York City wanted by mechanical electrical engineer with fifteen years' experience, graduate Massachusetts Institute Technology, now employed. Address "S. A. 24," Engineering News, New York. 25-1t

MECHANICAL ENGINEER, graduate of Stevens Institute, with twelve years' experience in designing, erecting and operating power plants and mills, desires position in or near New York. Address "M. 24," Engineering News, New York. 25-2t

MECHANICAL ENGINEER, extended experience designing, estimating and managing construction of heating and ventilating apparatus and steam power plants; capable of assuming full charge; best references. Address "X. A. 25," Engineering News, New York. 25-1t

Civil Engineers.

CIVIL ENGINEER, technical graduate, desires position estimating, drafting or general engineering work; several years' experience. Address "F. A. 25," Engineering News, New York. 25-1t

EXPERIENCED locating and constructing engineer wishes engagement. Railroads, tunnels, foundations, timbering, estimates, reports. Address "O. A. 25," Engineering News, New York. 25-1t

GRADUATE C. E., American, 25, single, 3 years' experience in field, on R. R. and building construction, open for engagement. Address "R. A. 25," Engineering News, New York. 25-1t

WANTED—With the construction department of some large corporation, a position by a young man, twenty-eight. Educated as a civil engineer. Wide experience, both executive and in the field, on construction work. Excellent references. Address "P. A. 25," Engineering News, New York. 25-2t

GRADUATE of Princeton College in civil engineering, desires to connect with reliable firm. Willing to start at moderate salary. Address "D. B. 25," Engineering News, New York. 25-1t

Bridge and Structural Engineers.

OPEN FOR POSITION with general contracting or construction Co.; competent to take entire charge of structural and ornamental steel and iron work; estimating, subletting, superintendence. Address "B. A. 25," Engineering News, New York. 25-1t

Surveyors.

YOUNG MAN, I. C. S. student, desires position with survey party; technical education; some experience; references. P. O. BOX 101, Freeport, N. Y. 25-1t

Draftsmen.

MECHANICAL DRAFTSMAN, best of training, six years' general experience, is open to engagement; will go anywhere. Address "S. A. 25," Engineering News, New York. 25-1t

TECHNICAL GRADUATE ('08), desires position with engineer or railroad; good draftsman, computer, etc.; moderate salary; references. Address "C. A. 25," Engineering News, New York. 25-1t

STRUCTURAL DRAFTSMAN, also some shop experience; technical graduate; wants position. Address "L. A. 25," Engineering News, New York. 25-1t

DRAFTSMAN AND DESIGNER, 27; technical graduate; six years' experience on structural, mechanical and ship work; knowledge of reinforced concrete design; desires position with engineer or contractor; New York or New England preferred. Address "G. A. 25," Engineering News, New York. 25-1t

YOUNG MAN with experience in surveying, also a fourth year student of Cooper Union, desires a position in or about New York at any branch of engineering (structural preferred) where practical knowledge could be acquired. Address "Z. B. 22," Engineering News, New York. 25-1t

YOUNG MAN (23), M. E. graduate, wanted position as draftsman, 3 years' experience. At present employed. Address "H. A. 25," Engineering News, New York. 25-1t

Superintendents, Misc., etc.

FOR ENGAGEMENT on January first, young man experienced in estimating and contracting for structural and ornamental steel and iron work; full particulars if granted an interview. Address "A. A. 25," Engineering News, New York. 25-1t

YOUNG MAN, 20, technical education, one year's experience as rodman, computer, desires permanent position in any branch of engineering. Address "K. A. 25," Engineering News, New York. 25-1t

BOOKKEEPER and office manager (30), single, now employed in the East, wants permanent position. Will go anywhere. Ten years' first-class experience with engineering and contracting firm. Address "E. A. 25," Engineering News, New York. 25-1t

YOUNG MAN with technical training desires any position; New York vicinity preferred. Address "B. 22," Engineering News, New York. 25-2t

Situations Open

WANTED—Experienced building superintendent to superintend work in New England. Address "M. A. 25," Engineering News, New York. 25-2t

WANTED—Several detailers on column and beam work. Apply HAY FOUNDRY & IRON WORKS, Newark, N. J. 25-1t

WANTED—Master mechanic, preferably with structural shop, foundry and machine shop experience, for a plant employing 200 to 300 men. Applicants must be resourceful, possess a technical training and have a general knowledge of engineering problems and how to solve them, as well as ability to direct draftsmen in design and to handle machinists, toolmakers, electricians, millwrights, etc., and get results. State age, experience and salary expected. Address "Y. 25," Engineering News, 1636 Monadnock Block, Chicago. 25-2t

Miscellaneous Wants

CIVIL ENGINEER, 35, engaged on water supply problems desires to contract with party for regular services amounting to 10 or 20 hours per week, in New York, Newark or vicinity. Experience in consulting work. Address "Z. A. 25," Engineering News, New York. 25-1t

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8—Lambert, 30, 40 and 60-HP. electric hoists with boom swing.
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30—Cameron Steam Pumps, all sizes.
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